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NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
1	2	3	4	5	6	7	8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Termination

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



CYLINDER AC

General data

Operating voltage U_b	20 ... 250V AC
Voltage frequency	50/60Hz
Voltage drop U_d	$\leq 5V$
Min. load current I_{emin}	5mA
Residual current I_r	$\leq 2mA$
Peak current	2A (20ms / 1Hz)
Max. switching frequency f	15Hz
Hysteresis H	$\leq 15\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Repeat accuracy R	$\leq 5\%$
Protection class	IP67
Switching state	LED
EMV-standard	according to EN60947-5-2
Housing material	brass, nickel-plated
Front cap	PCP
Connection	2m cable PVC 3 x 0,5mm ²



The drawings of these sensors are shown on the following page.

Other cable lengths as requested.

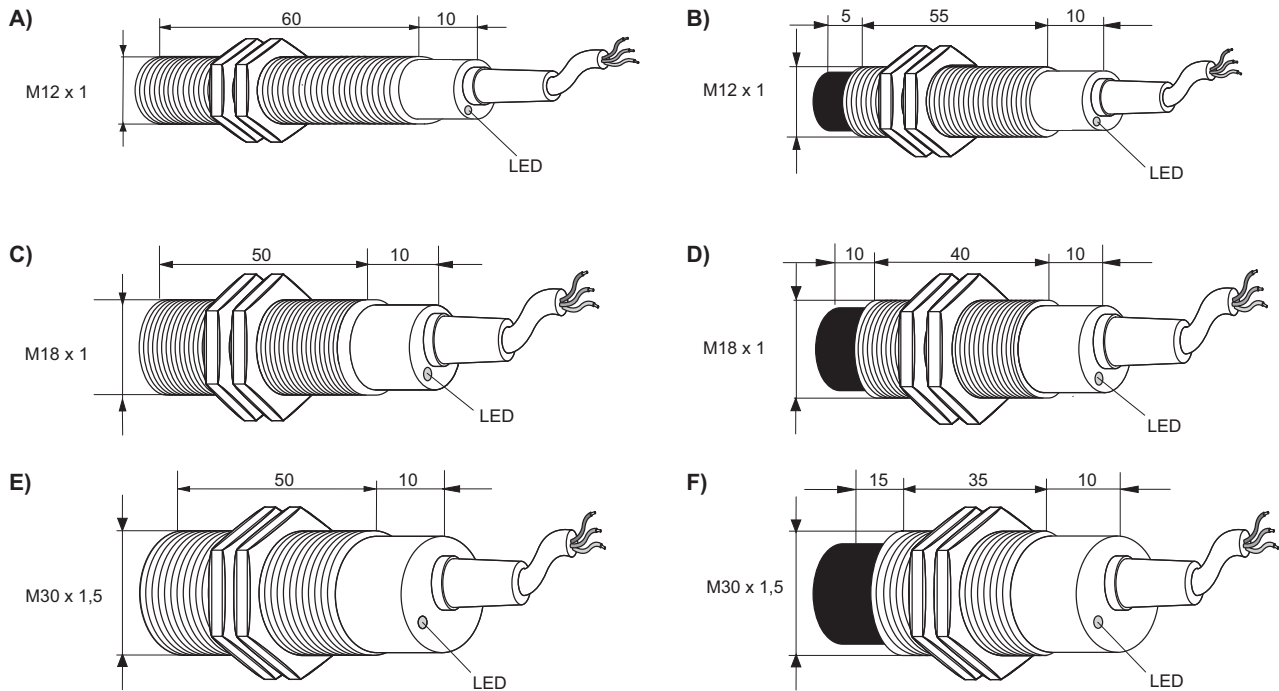
Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Max. load current	Drawing (next page)
08317240500	KJ2-M12MB70-AZS	shielded	AC	2	300mA	A
08317240400	KJ2-M12MB70-AZÖ	shielded	AC	2	300mA	A
08317240700	KJ4-M12MN70-AZS	non shielded	AC	4	300mA	B
08317240900	KJ4-M12MN70-AZÖ	non shielded	AC	4	300mA	B
08317211200	KJ5-M18MB60-AZS	shielded	AC	5	300mA	C
08317211300	KJ5-M18MB60-AZÖ	shielded	AC	5	300mA	C
08317211500	KJ10-M18MN60-AZS	non shielded	AC	10	300mA	D
08317211700	KJ10-M18MN60-AZÖ	non shielded	AC	10	300mA	D
08317162600	KJ10-M30MB60-AZS	shielded	AC	10	300mA	E
08317162100	KJ10-M30MB60-AZÖ	shielded	AC	10	300mA	E
08317162700	KJ15-M30MN60-AZS	non shielded	AC	15	300mA	F
08317162300	KJ15-M30MN60-AZÖ	non shielded	AC	15	300mA	F



CYLINDER AC

Dimensions



all data in mm



CYLINDER AC/DC

General data

Operating voltage U_b	20 ... 250V AC/DC
Voltage frequency	50/60Hz
Voltage drop U_d	$\leq 5V$
Min. load current I_{emin}	2mA
Max. load current I_e	350mA (M12 300mA)
Residual current I_r	$\leq 1,7mA$
Peak current	2A (20ms/1Hz)
Max. switching frequency f	30Hz
Hysteresis H	$\leq 15\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Repeat accuracy R	$\leq 5\%$
Protection class	IP67
Switching state	LED
EMV-standard	according to EN60947-5-2
Housing material	brass, nickel-plated
Front cap	PCP
Connection	2m cable PVC 3 x 0,5mm ²



The drawings of these sensors are shown on the following page.

Short circuit protection and overload protection locking. After removal of the short circuit the voltage supply has to be interrupted for approximately 2sec.

Other cable lengths as requested.

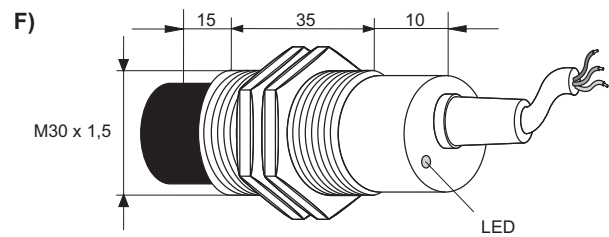
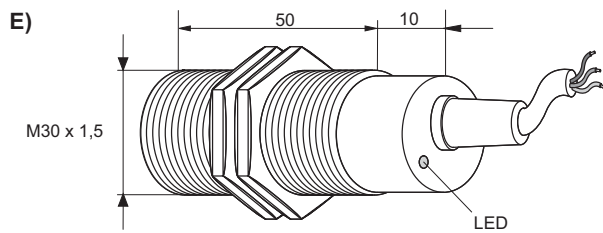
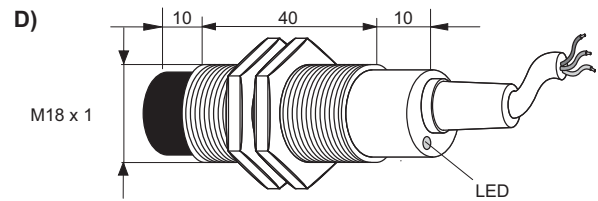
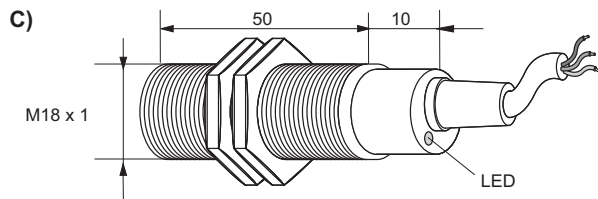
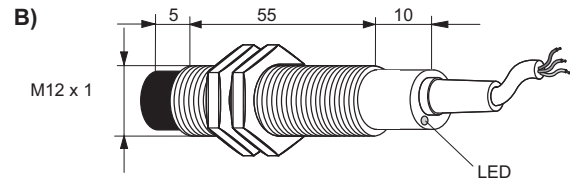
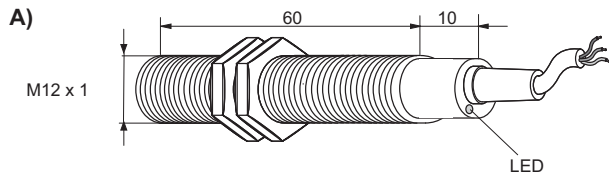
Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Drawing (next page)
08317251200	KJ2-M12MB70-VZS	shielded	AC/DC	2	A
08317251300	KJ2-M12MB70-VZÖ	shielded	AC/DC	2	A
08317251500	KJ4-M12MN70-VZS	non shielded	AC/DC	4	B
08317251700	KJ4-M12MN70-VZÖ	non shielded	AC/DC	4	B
08317231200	KJ5-M18MB60-VZS	shielded	AC/DC	5	C
08317231300	KJ5-M18MB60-VZÖ	shielded	AC/DC	5	C
08317231500	KJ8-M18MN60-VZS	non shielded	AC/DC	8	D
08317231700	KJ8-M18MN60-VZÖ	non shielded	AC/DC	8	D
08317171200	KJ10-M30MB60-VZS	shielded	AC/DC	10	E
08317171300	KJ10-M30MB60-VZÖ	shielded	AC/DC	10	E
08317171500	KJ15-M30MN60-VZS	non shielded	AC/DC	15	F
08317171700	KJ15-M30MN60-VZÖ	non shielded	AC/DC	15	F



CYLINDER AC/DC

Dimensions



all data in mm



SQUARE AC

General data

	KJ15-Q40KB-AZU	KJ40-Q40KN-AZU	KJ50-Q80KN-AZS
Operating voltage U_b	20 ... 250V AC	20 ... 250V AC or DC	20 ... 250V AC
Voltage frequency	50/60Hz	50/60Hz	50/60Hz
Voltage drop U_d	$\leq 5V$	$\leq 5V$	$\leq 8V$ bei 400mA
Min. load current I_{emin}	5mA	5mA	5mA
Max. load current I_e	$\leq 500mA$	$\leq 500mA$	$\leq 400mA$
Residual current I_r	$\leq 2mA$	$\leq 2mA$	$\leq 1,8mA$
Peak current	8,0A (20ms)	8,0A (20ms)	5,0A (20ms)
Max. switching frequency f	15Hz	15Hz	25Hz
Output function	AC changeover	AC changeover	AC changeover
Hysteresis H	$\leq 15\%$	$\leq 15\%$	$\leq 15\%$
Operating temperature T_a	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature drift	$\leq 10\%$	$\leq 10\%$	$\leq 10\%$
Repeat accuracy R	$\leq 5\%$	$\leq 5\%$	$\leq 5\%$
Protection class	IP67	IP67	IP67
Switching state	2 LED	2 LED	2 LED
EMV-standard	according to EN60947-5-2	according to EN60947-5-2	according to EN60947-5-2
Housing material	Trogamide T	Trogamide T	PBT Resin
Connection	clamps 1,5mm ²	clamps 1,5mm ²	clamps 1,5mm ²



The drawings of these sensors are shown on the following page.

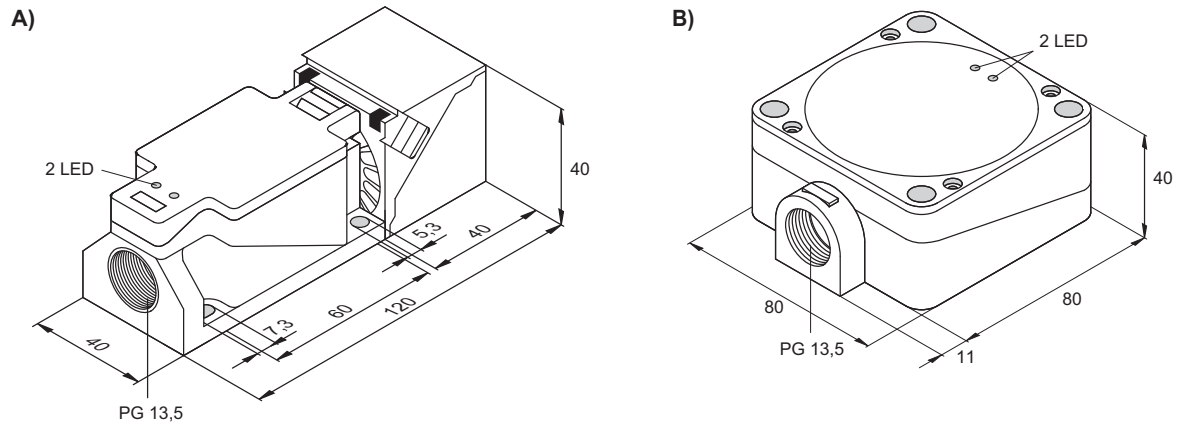
Selection chart

Article number	Designations	Mounting	Switching distance in mm	Drawing (next page)
08317533000	KJ15-Q40KB-AZU	shielded	15	A
08317533200	KJ40-Q40KN-AZU	non shielded	40	A
08317551000	KJ50-Q80KN-AZS	non shielded	50	B



SQUARE AC

Dimensions



all data in mm



SQUARE AC/DC

General data

Mounting	shielded
Operating voltage U_b	20 ... 250V AC /DC
Voltage frequency	50/60Hz
Voltage drop U_d	$\leq 5V$
Min. load current I_{emin}	5mA
Max. load current I_e	400mA
Residual current I_r	$\leq 2mA$
Peak current	8A (20ms)
Max. switching frequency f	15Hz
Output function	AC/DC changeover
Hysteresis H	$\leq 15\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Repeat accuracy R	$\leq 5\%$
Protection class	IP67
Switching state	2 LED
EMV-standard	according to EN 60947-5-2
Housing material	PA 6.6 GF30
Connection	clamps 1,5mm ²

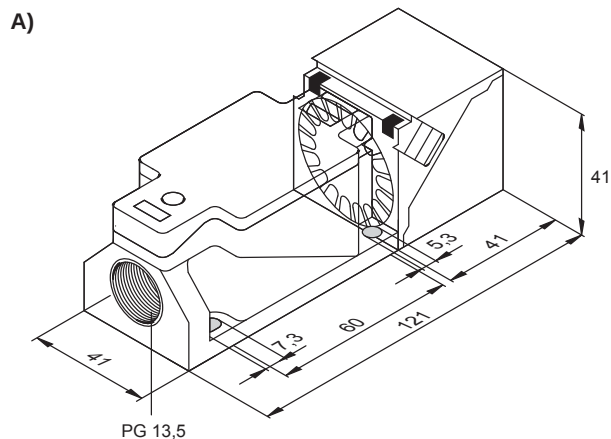


Short circuit protection and overload protection locking. After removal of the short circuit the voltage supply has to be interrupted for approximately 2sec.

Selection chart

Article number	Designation	Switching distance in mm	Drawing
08317730000	KJ20-Q40KB-VZU	20	A
08317730200	KJ40-Q40KN-VZU	40	A

Dimensions



all data in mm



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Cylinder M12 analog current output (ANI)	23
Cylinder M18 analog voltage output (ANU)	24
Cylinder M18 analog current output (ANI)	25
Cylinder M30 analog voltage output (ANU)	26
Cylinder M30 analog current output (ANI)	28
Square Q40 analog voltage output (ANU)	29
Cylinder M18, M30 analog voltage and current output (ANUI)	30
Square Q40 analog voltage and current output (ANUI)	32

19



NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆		┆	┆	┆	┆		┆	┆	┆	┆	┆	
1	2		3	4	5	6	7		8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Termination

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPÜ DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



PROGRAMMABLE ANALOG SENSORS

Technical data

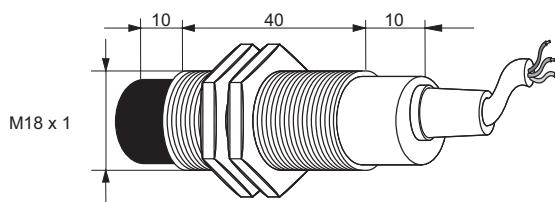
With four programmable switching points and an enlarged switching distance this sensor provides for large flexibility. Depending on the application the switching points can be configured as normally open or normally close contact. Current and voltage values can be set freely within the thresholds. The user realises any desired output characteristics until an ideal linearity in the application is attained. By programming a switching window the user is able to gate out unwanted measured data.



Article number	Designation
08317144730	KJ10-M18MN60-ANU-DPSS
Mounting	non shielded
Output signal	0 ... 10V
Operating voltage U_b	11 ... 30V DC
Ripple voltage of U_b	$\leq 5\%$
Reverse voltage protection	between + and -
Linearity	$\leq 3\%$
Off-state current I_0	$\leq 10,0\text{mA}$ (typ. 4 ... 5mA)
Operating current I_e	$\leq 10\text{mA}$
Internal resistor R_i	$\leq 500\Omega$
Operating frequency f	200Hz
Switching distance	0,5 ... 10,0mm
Repeat accuracy R	$\leq 1\%$
Average Rising	1,05V / mm +/- 5%
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 8%
Protection class	IP67
EMV-standard	according to IEC 60947-5-7
Housing material	brass, nickel-plated
Front cap	PA 6.6
Termination	2m cable PVC 4 x 0,34mm ²

Other cable lengths as requested.

Dimensions



all data in mm



INDUCTIVE SENSORS ANALOG

CYLINDER G6,5 ANALOG VOLTAGE OUTPUT (ANU)

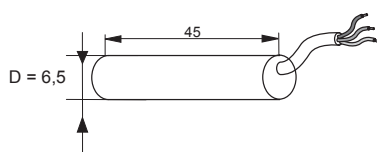
Technical data

Article number	Designation
08317140050	KJ2-G6,5MB40-ANU
Mounting	shielded
Output signal	0V ... 10V
Operating voltage U_b	11V ... 35V DC
Ripple voltage of U_b	$\leq 5\%$
Reverse voltage protection	between + and -
Linearity	$\leq 3\%$
Off-state current I_0	10,0mA (typ. 4 ... 5mA)
Operating frequency f	400Hz
Switching distance	0,5 ... 2mm
Repeat accuracy R	$\leq 1\%$
Average rising	6,66V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 8%
Protection class	IP67
EMV-standard	according to IEC 60947-5-7
Housing material	brass, nickel-plated
Front cap	PA 6.6
Termination	2m cable PVC 3 x 0,14mm ²



Other cable lengths as requested.

Dimensions



all data in mm



INDUCTIVE SENSORS ANALOG

CYLINDER M8 ANALOG VOLTAGE OUTPUT (ANU)

General data

Mounting	shielded
Output signal	0V ... 10V
Operating voltage U_b	11V ... 35V DC
Ripple voltage of U_b	$\leq 5\%$
Reverse voltage protection	between + and -
Linearity	$\leq 3\%$
Off-state current I_0	10,0mA (typ. 4 ... 5mA)
Operating frequency f	400Hz
Switching distance	0,5 ... 2mm
Repeat accuracy R	$\leq 1\%$
Average rising	6,66V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 8%
Protection class	IP67
EMV-standard	according to IEC 60947-5-7
Housing material	brass, nickel-plated
Front cap	PA 6.6

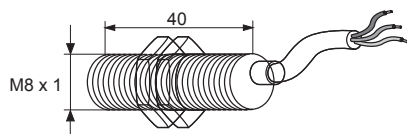


Selection chart

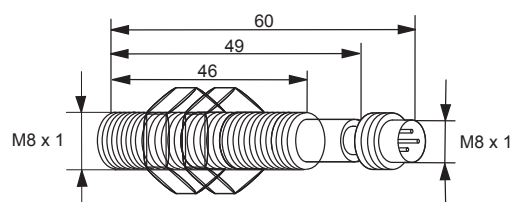
Article number	Designation	Termination	Drawing
08317140000	KJ2-M8MB40-ANU	2m cable PVC 3 x 0,14mm ²	A
08317140064	KJ2-M8MB60-ANU-V1	Connector M8 3-pole	B

Dimensions

A)



B)



all data in mm



CYLINDER M12 ANALOG VOLTAGE OUTPUT (ANU)

General data

Output signal	1V ... 9V
Operating voltage U_b	11V ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_o	$\leq 5\text{mA}$
Operating frequency f	KJ3... 500Hz KJ4... 400Hz
Repeat accuracy R	$\leq 1\%$
Average rising	KJ3... 2,91V / mm KJ4... 2,28V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PCP

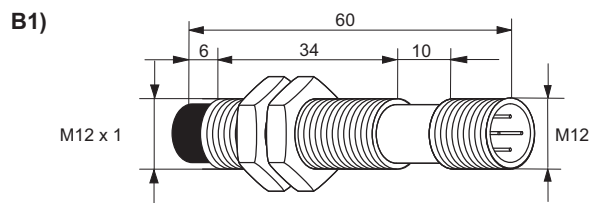
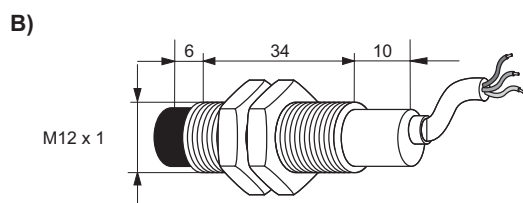
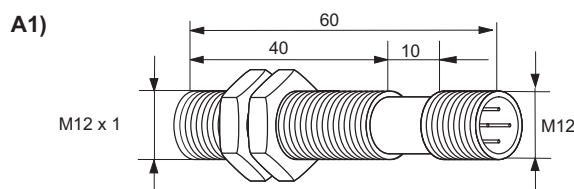
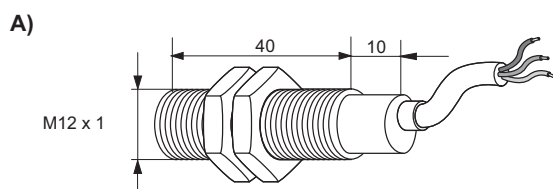


Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing
08317143800	KJ3-M12MB50-ANU	shielded	0,25 ... 3	2m cable PVC 3 x 0,34mm ²	A
08317143865	KJ3-M12MB60-ANU-V2	shielded	0,25 ... 3	Connector M12 4-pole	A1
08317144800	KJ4-M12MN50-ANU	non shielded	0,5 ... 4	2m cable PVC 3 x 0,34mm ²	B
08317144865	KJ4-M12MN60-ANU-V2	non shielded	0,5 ... 4	Connector M12 4-pole	B1

Other cable lengths as requested.

Dimensions



alle data in mm



CYLINDER M12 ANALOG CURRENT OUTPUT (ANI)

General data

Output signal	4 ... 20mA
Operating voltage U_b	10 ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_0	$\leq 10\text{mA}$
Operating frequency f	KJ3... 450Hz KJ4... 400Hz
Repeat accuracy R	$\leq 1\%$
Average rising	KJ3... 5,82mA / mm KJ4... 4,57mA / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PCP

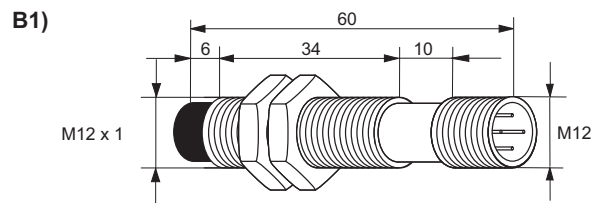
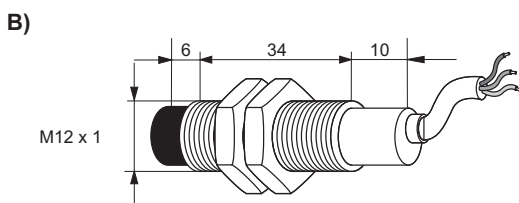
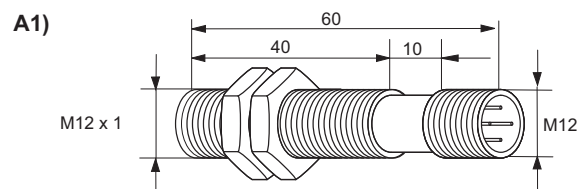
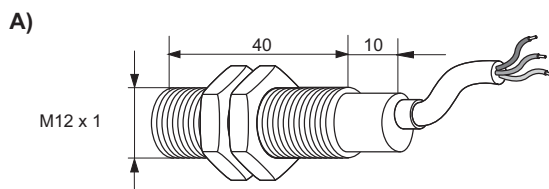


Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing
08317141800	KJ3-M12MB50-ANI	shielded	0,25 ... 3	2m cable PVC 3 x 0,34mm ²	A
08317141865	KJ3-M12MB60-ANI-V2	shielded	0,25 ... 3	Connector M12 4-pole	A1
08310000287	KJ4-M12MN50-ANI	non shielded	0,5 ... 4	2m cable PVC 3 x 0,34mm ²	B
08310001033	KJ4-M12MN60-ANI-V2	non shielded	0,5 ... 4	Connector M12 4-pole	B1

Other cable lengths as requested.

Dimensions



all data in mm



CYLINDER M18 ANALOG VOLTAGE OUTPUT (ANU)

General data

Output signal	1V ... 9V
Operating voltage U_b	11V ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_0	$\leq 5\text{mA}$
Operating frequency f	KJ5... 500Hz KJ8... 400Hz
Repeat accuracy R	$\leq 1\%$
Average rising	KJ5... 1,778V / mm KJ8... 1,143V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PCP

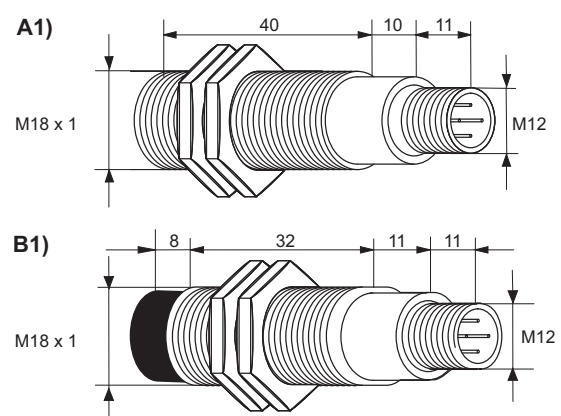
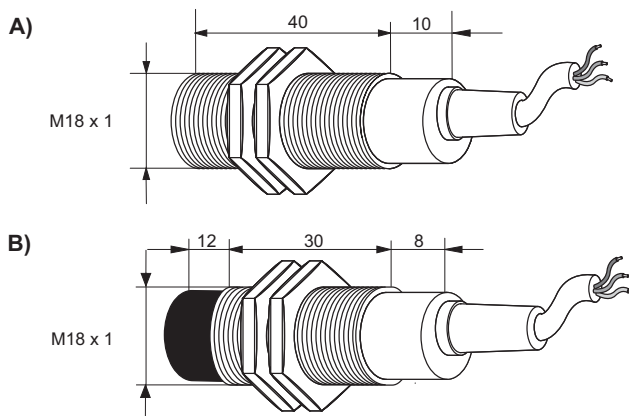


Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing
08317143700	KJ5-M18MB50-ANU	shielded	0,5 ... 5	2m cable PVC 3 x 0,34mm ²	A
08317143765	KJ5-M18MB61-ANU-V2	shielded	0,5 ... 5	Connector M12 4-pole	A1
08317144700	KJ8-M18MN50-ANU	non shielded	1 ... 8	2m cable PVC 3 x 0,34mm ²	B
08317144765	KJ8-M18MN61-ANU-V2	non shielded	1 ... 8	Connector M12 4-pole	B1

Other cable lengths as requested.

Dimensions



all data in mm

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CYLINDER M18 ANALOG CURRENT OUTPUT (ANI)

General data

Output signal	4 ... 20mA
Operating voltage U_b	10V ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_o	$\leq 10\text{mA}$
Operating frequency f	400Hz
Repeat accuracy R	$\leq 1\%$
Average rising	KJ5... 3,56mA / mm KJ8... 2,29mA / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PCP

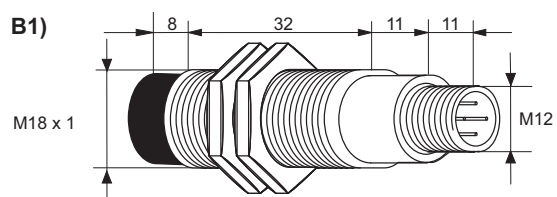
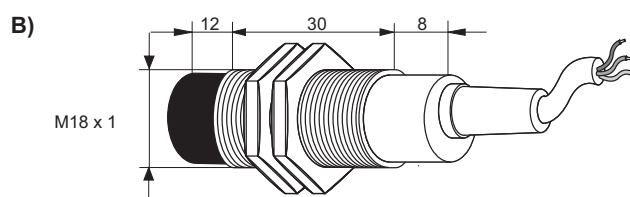
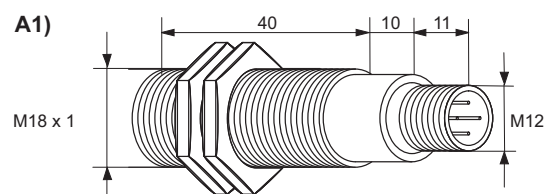
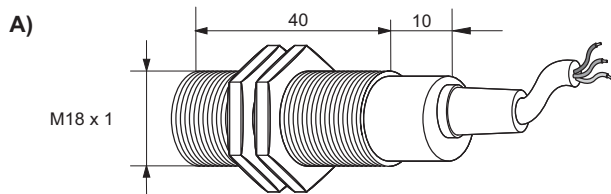


Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing
08317141700	KJ5-M18MB50-ANI	shielded	0,5 ... 5	2m cable PVC 3 x 0,34mm ²	A
08317141765	KJ5-M18MB61-ANI-V2	shielded	0,5 ... 5	Connector M12 4-pole	A1
08310000293	KJ8-M18MN50-ANI	non shielded	1 ... 8	2m cable PVC 3 x 0,34mm ²	B
08310001031	KJ8-M18MN61-ANI-V2	non shielded	1 ... 8	Connector M12 4-pole	B1

Other cable lengths as requested.

Dimensions



alle data in mm



CYLINDER M30 ANALOG VOLTAGE OUTPUT (ANU)

General data

Output signal	1V ... 9V
Operating voltage U_b	KJ9... 11 ... 35V DC KJ14... 18 ... 30V DC KJ15... 11 ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_o	KJ9... 5mA KJ14... ≤ 10 mA KJ15... ≤ 5 mA
Repeat accuracy R	$\leq 1\%$
Average rising	KJ9... 1V / mm KJ14 ... (4BIT) 1,14V / mm KJ15... 0,667V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Frontcap	PCP



The drawings of these sensors are shown on the following page.

Selection chart

Article number	Designation M30 Switching distance 1 ... 9mm	Mounting	Operating frequency	Termination	Drawing (following page)
08317143600	KJ9-M30MB40-ANU	shielded	400Hz	2m cable PVC 3 x 0,34mm ²	A
08317143665	KJ9-M30MB50-ANU-V2	shielded	400Hz	Connector M12 4-pole	A1

	Designation M30 Switching distance 7 ... 14mm				
08317140500	KJ14-M30MN80-ANU-F1*	non shielded	100Hz	2m cable PVC 3 x 0,14mm ²	B
08317140600	KJ14-M30MN80-ANU-F2*	non shielded	100Hz	2m cable PVC 3 x 0,14mm ²	B
08317141000	KJ14-M30MN80-ANU 4BIT**	non shielded	30Hz	2m cable PVC 7 x 0,14mm ²	B

* several working frequencies for opposed mounting

** with additional 4 BIT NPN-digital output

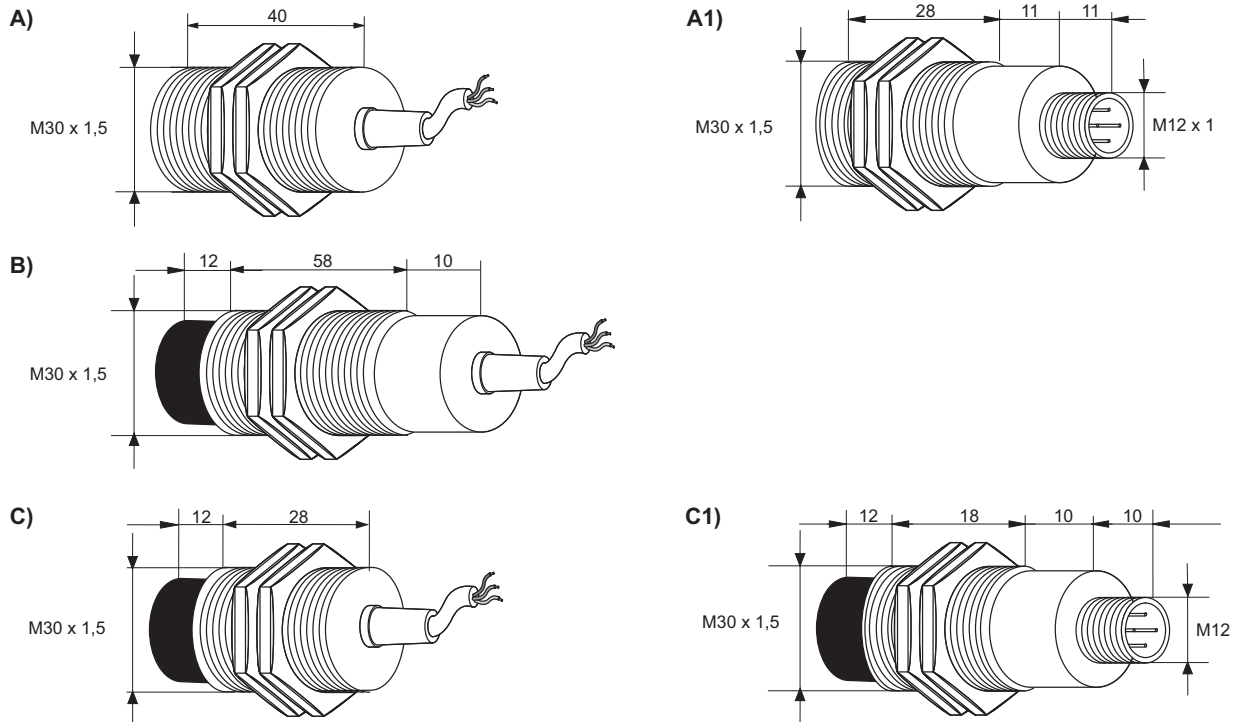
	Designation M30 Switching distance 3 ... 15mm				
08317144600	KJ15-M30MN40-ANU	non shielded	300Hz	2m cable PVC 3 x 0,34mm ²	C
08317144665	KJ15-M30MN50-ANU-V2	non shielded	300Hz	Connector M12 4-pole	C1

Other cable lengths as requested.



CYLINDER M30 ANALOG VOLTAGE OUTPUT (ANU)

Dimensions



all data in mm



CYLINDER M30 ANALOG CURRENT OUTPUT (ANI)

General data

Output signal	4 ... 20mA
Operating voltage U_b	10V ... 35V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 5\%$
Off-state current I_0	$\leq 10\text{mA}$
Operating frequency f	KJ9... 350Hz KJ15... 300Hz
Repeat accuracy R	$\leq 1\%$
Average rising	KJ9... 2mA / mm KJ15... 1,33mA / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PCP

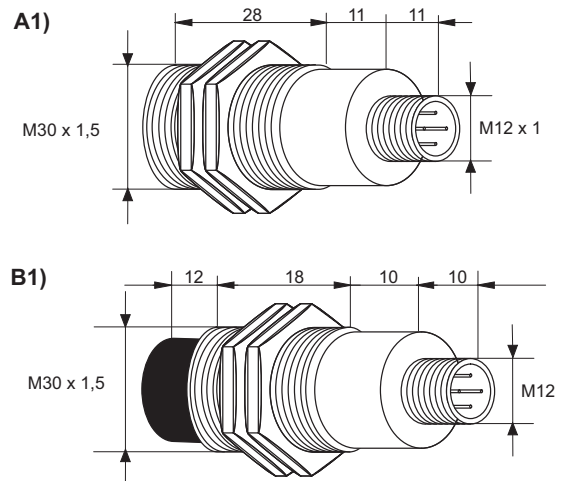
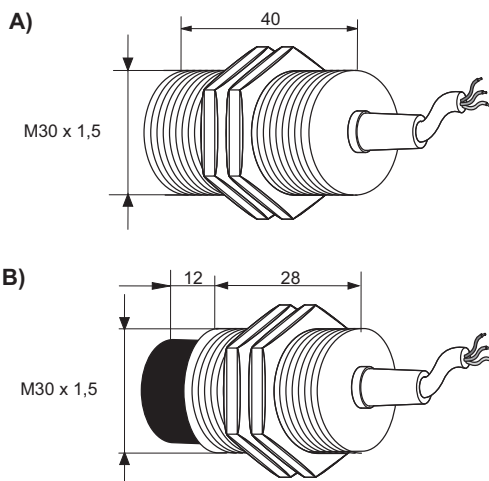


Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing
08317141600	KJ9-M30MB40-ANI	shielded	1 ... 9	2m cable PVC 3 x 0,34mm ²	A
08317141665	KJ9-M30MB50-ANI-V2	shielded	1 ... 9	Connector M12 4-pole	A1
08310000294	KJ15-M30MN40-ANI	non shielded	3 ... 15	2m cable PVC 3 x 0,34mm ²	B
08310001032	KJ15-M30MN50-ANI-V2	non shielded	3 ... 15	Connector M12 4-pole	B1

Other cable lengths as requested.

Dimensions



all data in mm

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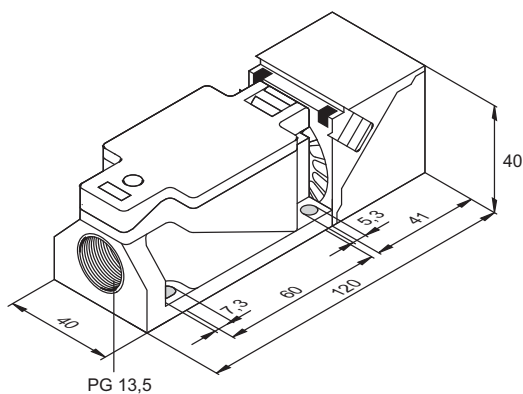
SQUARE Q40 ANALOG VOLTAGE OUTPUT (ANU)

Technical data

Article number	Designation
08317141100	KJ20-Q40KN-ANU
Mounting	non shielded
Output signal	1 ... 9V
Operating voltage U_b	18 ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	between + and -
Linearity	$\leq 5\%$
Off-state current I_0	$\leq 10\text{mA}$
Operating frequency f	25Hz
Switching distance	10 ... 20mm
Repeat accuracy R	$\leq 5\%$
Average rising	0,8V / mm
Operating temperature T_a	-25°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	Trogamid
Termination	Terminals 1,5mm ²



Dimensions



all data in mm



CYLINDER ANALOG VOLTAGE AND CURRENT OUTPUT (ANUI)

General data

Output signal	0 ... 10V 4 ... 20mA
Operating voltage U_b	18V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	$\leq 10\%$
Off-state current I_o	$\leq 15\text{mA}$
Operating frequency f	SJ4... 100Hz SJ7... 30Hz SJ10... 100Hz SJ14... 30Hz
Repeat accuracy R	$\leq 0,02\%$
Average Rising	SJ4... 3,3V /mm / 6,66mA /mm SJ7... 1,66V /mm / 3,33mA /mm SJ10... 2V /mm / 4mA /mm SJ14... 1,43V /mm / 2,86mA /mm
Operating temperature T_a	0°C ... +70°C
Temperature drift	+/- 5%
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	brass, nickel-plated
Front cap	PBT
Termination	2m cable PUR 4 x 0,5mm ²



The drawings of these sensors are shown on the following page.

Selection chart

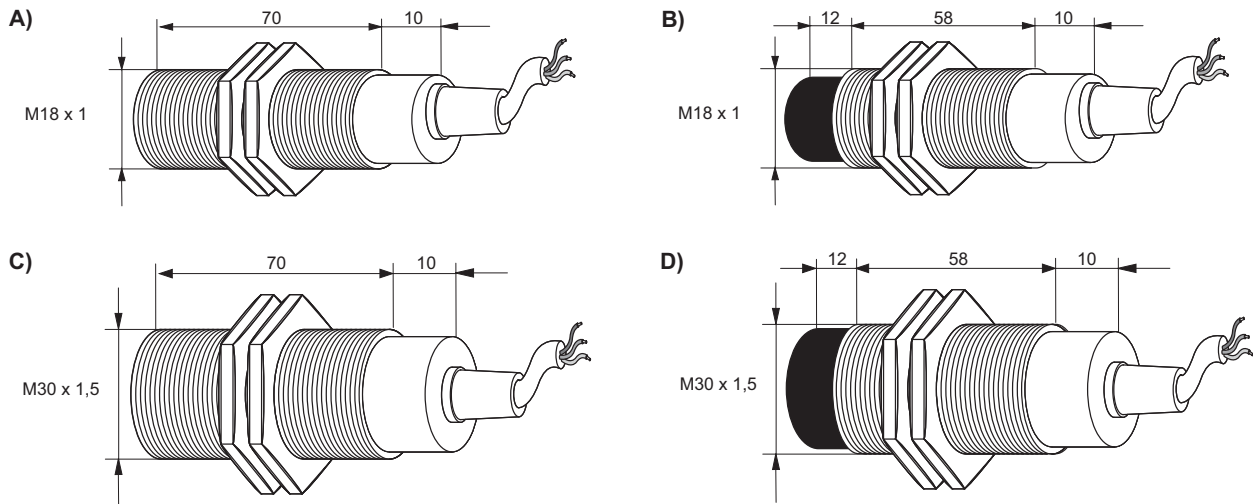
Article number	Designation	Mounting	Switching distance in mm	Drawing (following page)
08313180410	SJ4-M18MB80-ANUI	shielded	1 ... 4	A
08313180710	SJ7-M18MN80-ANUI	non shielded	1 ... 7	B
08313103010	SJ10-M30MB80-ANUI	shielded	5 ... 10	C
08313301410	SJ14-M30MN80-ANUI	non shielded	7 ... 14	D

Other cable lengths as requested.



CYLINDER ANALOG VOLTAGE AND CURRENT OUTPUT (ANUI)

Dimensions



all data in mm



INDUCTIVE SENSORS ANALOG

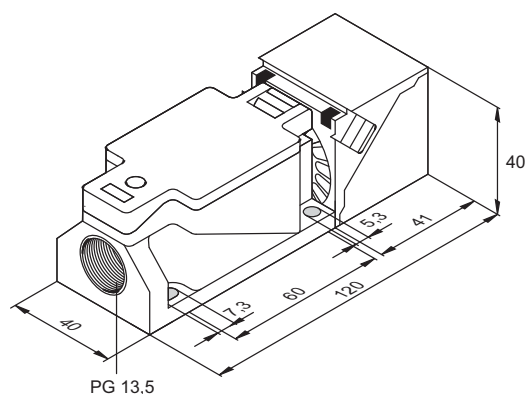
SQUARE ANALOG VOLTAGE AND CURRENT OUTPUT (ANUI)

Technical data

Article number	Designation
08313204010	SJ20-Q40KN-ANUI
Mounting	non shielded
Output signal	0 ... 10V 0mA ... 20mA
Operating voltage U_b	18 ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Reverse voltage protection	yes
Linearity	0%
Off-state current I_0	$\leq 15\text{mA}$
Operating frequency f	30Hz
Switching distance	10 ... 20mm
Repeat accuracy R	$\leq 0,02\%$
Average rising	$0,77\text{V} / \text{mm} = 1,54 \text{ mA} / \text{mm}$
Operating temperature T_a	$0^\circ\text{C} \dots +70^\circ\text{C}$
Temperature drift	$\pm 5\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-7
Housing material	PBT
Termination	Terminals $1,5\text{mm}^2$



Dimensions



all data in mm



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31



NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆
1	2	3	4	5	6	7	8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-Bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



CYLINDER G6,5

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	SJ1,5... 2000Hz KJ2... 3000Hz KJ3... 2500Hz
Hysteresis H	typ. $5\% \leq 10\%$ (SJ1,5... $\leq 15\%$)
Repeatability R	$\leq 2\%$ (SJ1,5... $\leq 1\%$)
Temperature range T_a	$-25^\circ C \dots +75^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated (SJ1,5... stainless steel)
Front cap	PA 6.6 (SJ1,5... POM)



Selection chart

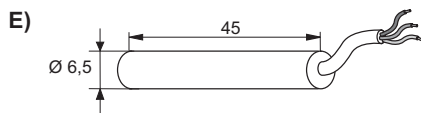
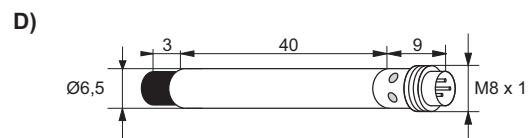
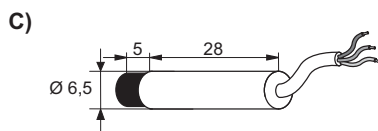
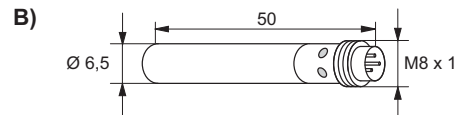
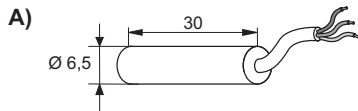
Article number	Designation brass	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317816000	KJ2-G6,5MB30-DPS	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08317816400	KJ2-G6,5MB30-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08317816100	KJ2-G6,5MB30-DNS	shielded	NPN	2	2m cable PVC 3 x 0,14mm ²	A
08317816500	KJ2-G6,5MB30-DNÖ	shielded	NPN	2	2m cable PVC 3 x 0,14mm ²	A
08317816064	KJ2-G6,5MB50-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317816464	KJ2-G6,5MB50-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08317816164	KJ2-G6,5MB50-DNS-V1	shielded	NPN	2	connector M8 3-pole	B
08317816564	KJ2-G6,5MB50-DNÖ-V1	shielded	NPN	2	connector M8 3-pole	B
08317816200	KJ3-G6,5MN33-DPS	non shielded	PNP	3	2m cable PVC 3 x 0,14mm ²	C
08317816600	KJ3-G6,5MN33-DPÖ	non shielded	PNP	3	2m cable PVC 3 x 0,14mm ²	C
08317816300	KJ3-G6,5MN33-DNS	non shielded	NPN	3	2m cable PVC 3 x 0,14mm ²	C
08317816700	KJ3-G6,5MN33-DNÖ	non shielded	NPN	3	2m cable PVC 3 x 0,14mm ²	C
08317816264	KJ3-G6,5MN53-DPS-V1	non shielded	PNP	3	connector M8 3-pole	D
08317816664	KJ3-G6,5MN53-DPÖ-V1	non shielded	PNP	3	connector M8 3-pole	D
08317816364	KJ3-G6,5MN53-DNS-V1	non shielded	NPN	3	connector M8 3-pole	D
08317816764	KJ3-G6,5MN53-DNÖ-V1	non shielded	NPN	3	connector M8 3-pole	D
	Designation stainless steel					
08313651564	SJ1,5-G6,5EB45-DPA	shielded	PNP	1,5	2m cable PVC 4 x 0,15mm ²	E
08313651554	SJ1,5-G6,5EB45-DNA	shielded	NPN	1,5	2m cable PVC 4 x 0,15mm ²	E

Other cable lengths as requested.



CYLINDER G6,5

Dimensions



all data in mm



CYLINDER M8 - STANDARD

General data

Operating voltage U_b	10 ... 30V DC*
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$ (SJ1,5... $\leq 1,0V$)
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$ (SJ1,5... $\leq 1,0\%$)
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated, stainless steel
Front cap	brass: PCP stainless steel: POM



* KJ1,5-M8MB50-DPS-V2: 10 ... 35V DC

Selection chart

Article number	Designation brass	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317610200	KJ1,5-M8MB40-DPS	shielded	PNP	1,5	2m cable PVC 3 x 0,14mm ²	A
08317610300	KJ1,5-M8MB40-DNS	shielded	NPN	1,5	2m cable PVC 3 x 0,14mm ²	A
08317610264	KJ1,5-M8MB50-DPS-V1	shielded	PNP	1,5	connector M8 3-pole	B
08317610364	KJ1,5-M8MB50-DNS-V1	shielded	NPN	1,5	connector M8 3-pole	B
08317610265	KJ1,5-M8MB50-DPS-V2	shielded	PNP	1,5	connector M12 4-pole	C
08317610365	KJ1,5-M8MB50-DNS-V2	shielded	NPN	1,5	connector M12 4-pole	C
08317610400	KJ2-M8MN40-DPS	non shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	D
08317610500	KJ2-M8MN40-DNS	non shielded	NPN	2	2m cable PVC 3 x 0,14mm ²	D
08317610464	KJ2-M8MN50-DPS-V1	non shielded	PNP	2	connector M8 3-pole	E
08317610564	KJ2-M8MN50-DNS-V1	non shielded	NPN	2	connector M8 3-pole	E
08317610465	KJ2-M8MN50-DPS-V2	non shielded	PNP	2	connector M12 4-pole	F
08317610565	KJ2-M8MN50-DNS-V2	non shielded	NPN	2	connector M12 4-pole	F

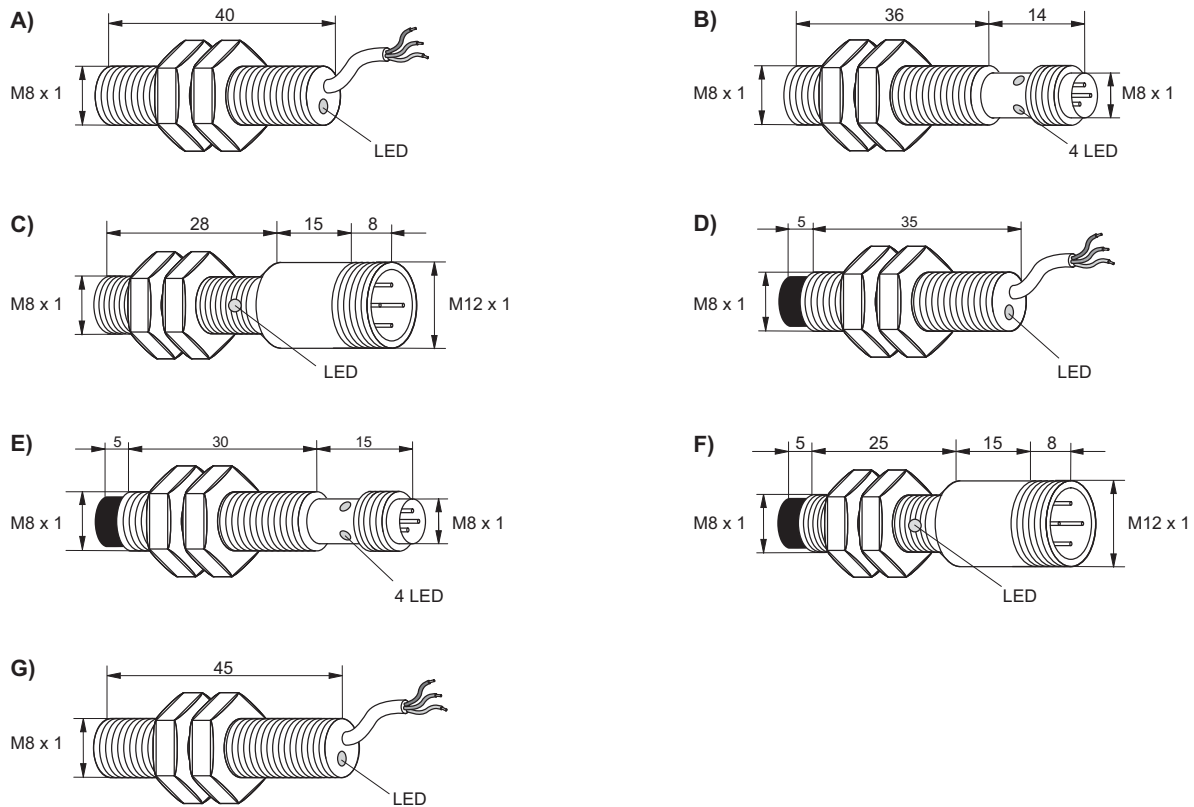
	Designation stainless steel					
08313081560	SJ1,5-M8EB45-DPA	shielded	PNP	1,5	2m cable PVC 3 x 0,15mm ²	G
08313081550	SJ1,5-M8EB45-DNA	shielded	NPN	1,5	2m cable PVC 3 x 0,15mm ²	G

Other cable lengths as requested.



CYLINDER M8 - STANDARD

Dimensions



all data in mm



CYLINDER M8 - ADVANCED

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ2... 3000Hz KJ3... 2500Hz
Hysteresis H	typ. $5\% \leq 10\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PCP



Selection chart

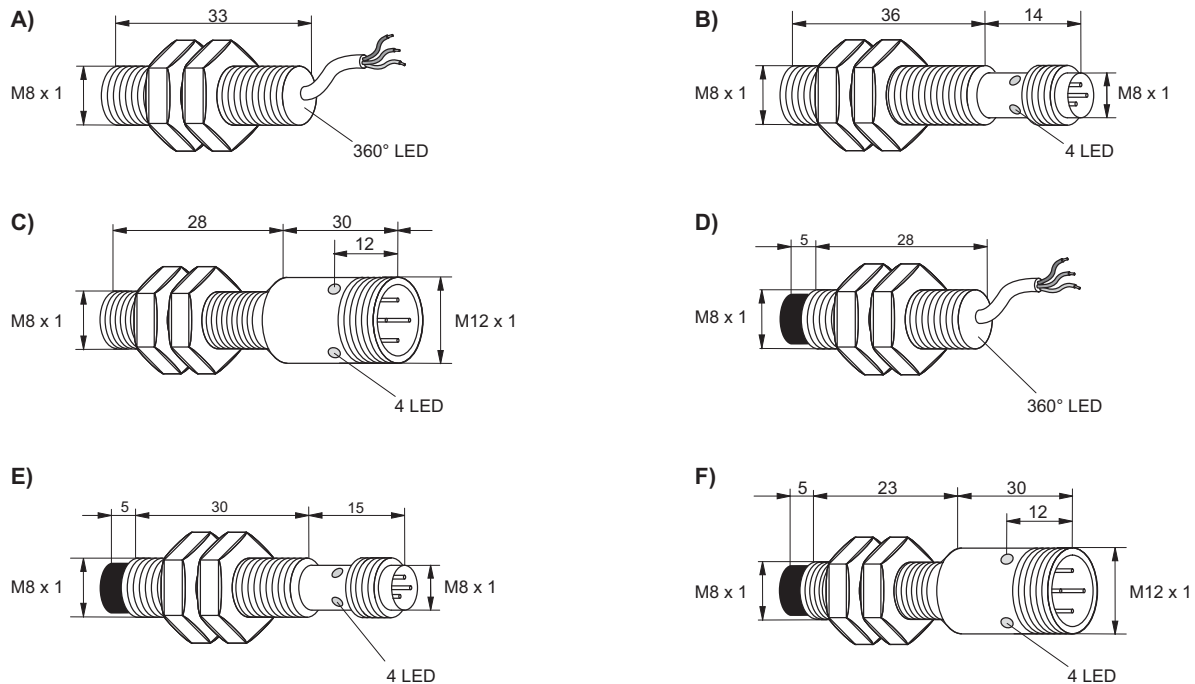
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317811000	KJ2-M8MB33-DPS	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08317811400	KJ2-M8MB33-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08317811100	KJ2-M8MB33-DNS	shielded	NPN	2	2m cable PVC 3 x 0,14mm ²	A
08317811500	KJ2-M8MB33-DNÖ	shielded	NPN	2	2m cable PVC 3 x 0,14mm ²	A
08317811064	KJ2-M8MB50-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317811464	KJ2-M8MB50-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08317811164	KJ2-M8MB50-DNS-V1	shielded	NPN	2	connector M8 3-pole	B
08317811564	KJ2-M8MB50-DNÖ-V1	shielded	NPN	2	connector M8 3-pole	B
08317811050	KJ2-M8MB58-DPS-V2	shielded	PNP	2	connector M12 4-pole	C
08317811450	KJ2-M8MB58-DPÖ-V2	shielded	PNP	2	connector M12 4-pole	C
08317811150	KJ2-M8MB58-DNS-V2	shielded	NPN	2	connector M12 4-pole	C
08317811550	KJ2-M8MB58-DNÖ-V2	shielded	NPN	2	connector M12 4-pole	C
08317811200	KJ3-M8MN33-DPS	non shielded	PNP	3	2m cable PVC 3 x 0,14mm ²	D
08317811600	KJ3-M8MN33-DPÖ	non shielded	PNP	3	2m cable PVC 3 x 0,14mm ²	D
08317811300	KJ3-M8MN33-DNS	non shielded	NPN	3	2m cable PVC 3 x 0,14mm ²	D
08317811700	KJ3-M8MN33-DNÖ	non shielded	NPN	3	2m cable PVC 3 x 0,14mm ²	D
08317811264	KJ3-M8MN50-DPS-V1	non shielded	PNP	3	connector M8 3-pole	E
08317811664	KJ3-M8MN50-DPÖ-V1	non shielded	PNP	3	connector M8 3-pole	E
08317811364	KJ3-M8MN50-DNS-V1	non shielded	NPN	3	connector M8 3-pole	E
08317811764	KJ3-M8MN50-DNÖ-V1	non shielded	NPN	3	connector M8 3-pole	E
08317811250	KJ3-M8MN58-DPS-V2	non shielded	PNP	3	connector M12 4-pole	F
08317811650	KJ3-M8MN58-DPÖ-V2	non shielded	PNP	3	connector M12 4-pole	F
08317811350	KJ3-M8MN58-DNS-V2	non shielded	NPN	3	connector M12 4-pole	F
08317811750	KJ3-M8MN58-DNÖ-V2	non shielded	NPN	3	connector M12 4-pole	F

Other cable lengths as requested.



CYLINDER M8 - ADVANCED

Dimensions



all data in mm



CYLINDER M12 - SHORTIES

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ2... 2000Hz KJ4... 1000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PA 6.6



Selection chart

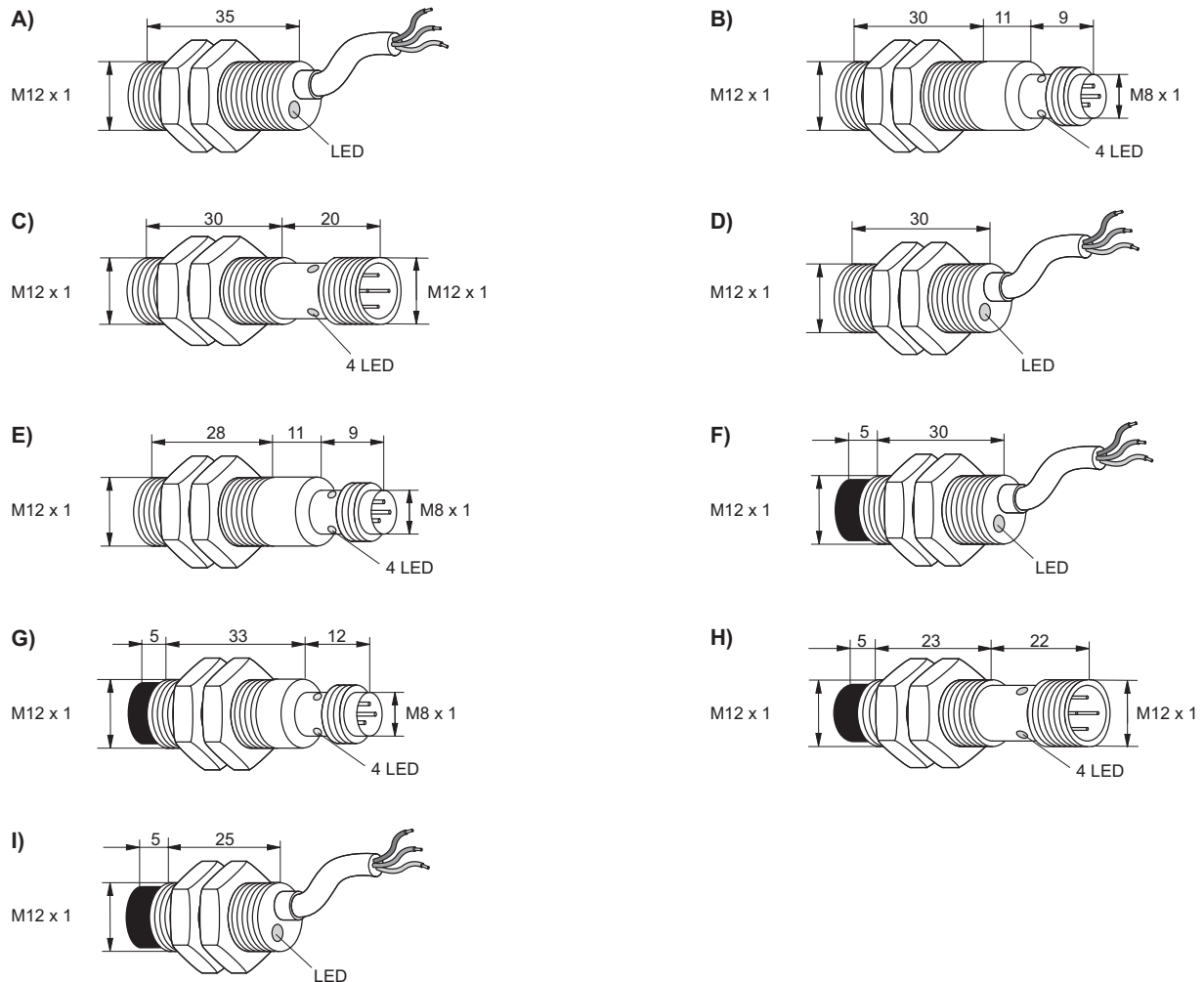
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317822000	KJ2-M12MB35-DPS	shielded	PNP	2	2m cable PVC 3 x 0,34mm ²	A
08317822100	KJ2-M12MB35-DNS	shielded	NPN	2	2m cable PVC 3 x 0,34mm ²	A
08317822064	KJ2-M12MB50-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317822164	KJ2-M12MB50-DNS-V1	shielded	NPN	2	connector M8 3-pole	B
08317822065	KJ2-M12MB50-DPS-V2	shielded	PNP	2	connector M12 4-pole	C
08317822165	KJ2-M12MB50-DNS-V2	shielded	NPN	2	connector M12 4-pole	C
08310009173	KJ4-M12MB30-DPS	shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	D
08310000288	KJ4-M12MB50-DPS-V1	shielded	PNP	4	connector M8 3-pole	E
08317824950	KJ4-M12MB50-DPS-V2	shielded	PNP	4	connector M12 4-pole	C
08317822200	KJ4-M12MN35-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,14mm ²	F
08317822300	KJ4-M12MN35-DNS	non shielded	NPN	4	2m cable PVC 3 x 0,14mm ²	F
08317822264	KJ4-M12MN50-DPS-V1	non shielded	PNP	4	connector M8 3-pole	G
08317822364	KJ4-M12MN50-DNS-V1	non shielded	NPN	4	connector M8 3-pole	G
08317822265	KJ4-M12MN50-DPS-V2	non shielded	PNP	4	connector M12 4-pole	H
08317822365	KJ4-M12MN50-DNS-V2	non shielded	NPN	4	connector M12 4-pole	H
0831xxxxxxx	KJ6-M12MN30-DPS	non shielded	PNP	6	2m cable PVC 3 x 0,34mm ²	I
08310000736	KJ6-M12MN50-DPS-V1	non shielded	PNP	6	connector M8 3-pole	G
0831xxxxxxx	KJ6-M12MN50-DPS-V2	non shielded	PNP	6	connector M12 4-pole	H

Other cable lengths as requested.



CYLINDER M12 - SHORTIES

Dimensions



all data in mm



CYLINDER M12 - STANDARD

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ2... 1000Hz (antivalent 2000Hz) KJ4... 800Hz (antivalent 1000Hz)
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	nach EN 60947-5-2
Switching state	LED
Housing material	Messing vernickelt
Front cap	PA 6.6



Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317624000	KJ2-M12MB40-DPS	shielded	PNP	2	2m cable PVC 3 x 0,34mm ²	A
08317624400	KJ2-M12MB40-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,34mm ²	A
08317624100	KJ2-M12MB40-DNS	shielded	NPN	2	2m cable PVC 3 x 0,34mm ²	A
08317624500	KJ2-M12MB40-DNÖ	shielded	NPN	2	2m cable PVC 3 x 0,34mm ²	A
08317624064	KJ2-M12MB60-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317624464	KJ2-M12MB60-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08317624164	KJ2-M12MB60-DNS-V1	shielded	NPN	2	connector M8 3-pole	B
08317624564	KJ2-M12MB60-DNÖ-V1	shielded	NPN	2	connector M8 3-pole	B
08317624065	KJ2-M12MB60-DPS-V2	shielded	PNP	2	connector M12 4-pole	C
08317624465	KJ2-M12MB60-DPÖ-V2	shielded	PNP	2	connector M12 4-pole	C
08317624165	KJ2-M12MB60-DNS-V2	shielded	NPN	2	connector M12 4-pole	C
08317624565	KJ2-M12MB60-DNÖ-V2	shielded	NPN	2	connector M12 4-pole	C
08317626200	KJ2-M12MB60-DPA	shielded	PNP	2	2m cable PVC 4 x 0,34mm ²	D
08310000705	KJ2-M12MB60-DNA	shielded	NPN	2	2m cable PVC 4 x 0,34mm ²	D
08317626265	KJ2-M12MB80-DPA-V2	shielded	PNP	2	connector M12 4-pole	E
0831xxxxxxx	KJ2-M12MB80-DNA-V2	shielded	NPN	2	connector M12 4-pole	E
08317624200	KJ4-M12MN40-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	F
08317624600	KJ4-M12MN40-DPÖ	non shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	F
08317624300	KJ4-M12MN40-DNS	non shielded	NPN	4	2m cable PVC 3 x 0,34mm ²	F
08317624700	KJ4-M12MN40-DNÖ	non shielded	NPN	4	2m cable PVC 3 x 0,34mm ²	F
08317624264	KJ4-M12MN60-DPS-V1	non shielded	PNP	4	connector M8 3-pole	G
08317624664	KJ4-M12MN60-DPÖ-V1	non shielded	PNP	4	connector M8 3-pole	G
08317624364	KJ4-M12MN60-DNS-V1	non shielded	NPN	4	connector M8 3-pole	G
08317624764	KJ4-M12MN60-DNÖ-V1	non shielded	NPN	4	connector M8 3-pole	G

Continuation on the next page. Other cable lengths as requested.



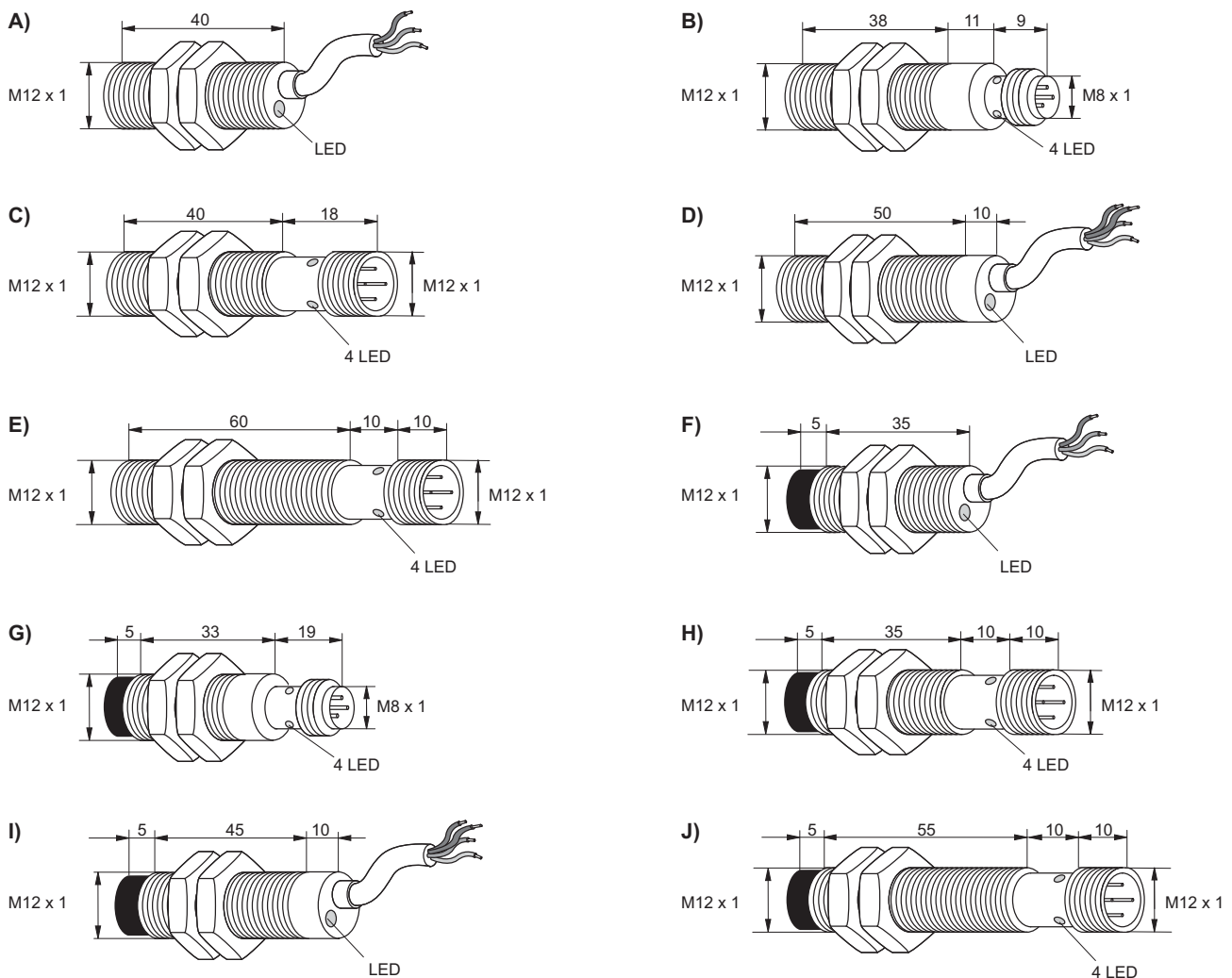
CYLINDER M12 - STANDARD

Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317624265	KJ4-M12MN60-DPS-V2	non shielded	PNP	4	connector M12 4-pole	H
08317624665	KJ4-M12MN60-DPÖ-V2	non shielded	PNP	4	connector M12 4-pole	H
08317624365	KJ4-M12MN60-DNS-V2	non shielded	NPN	4	connector M12 4-pole	H
08317624765	KJ4-M12MN60-DNÖ-V2	non shielded	NPN	4	connector M12 4-pole	H
08317626300	KJ4-M12MN60-DPA	non shielded	PNP	4	2m cable PVC 4 x 0,34mm ²	I
08310000019	KJ4-M12MN60-DNA	non shielded	NPN	4	2m cable PVC 4 x 0,34mm ²	I
08317626365	KJ4-M12MN80-DPA-V2	non shielded	PNP	4	connector M12 4-pole	J
0831xxxxxxx	KJ4-M12MN80-DNA-V2	non shielded	NPN	4	connector M12 4-pole	J

Other cable lengths as requested.

Dimensions



all data in mm



CYLINDER M12 - ADVANCED

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ4... 2000Hz KJ6... 1000Hz
Hysteresis H	typ. $5\% \leq 10\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PA 6.6



Selection chart

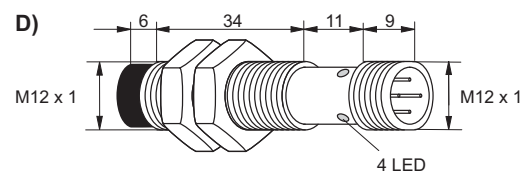
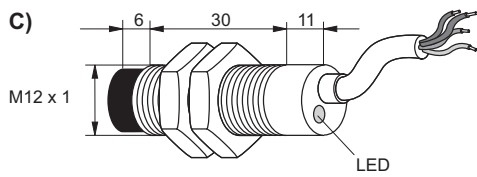
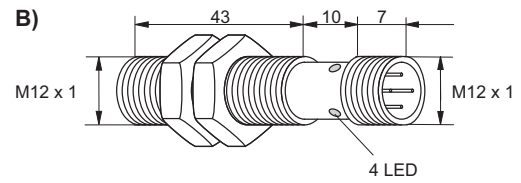
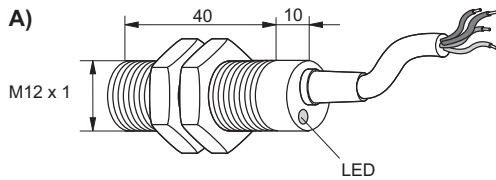
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317821000	KJ4-M12MB50-DPS	shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	A
08317821400	KJ4-M12MB50-DPÖ	shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	A
08317821100	KJ4-M12MB50-DNS	shielded	NPN	4	2m cable PVC 3 x 0,34mm ²	A
08317821500	KJ4-M12MB50-DNÖ	shielded	NPN	4	2m cable PVC 3 x 0,34mm ²	A
08317821050	KJ4-M12MB60-DPS-V2	shielded	PNP	4	connector M12 4-pole	B
08317821450	KJ4-M12MB60-DPÖ-V2	shielded	PNP	4	connector M12 4-pole	B
08317821150	KJ4-M12MB60-DNS-V2	shielded	NPN	4	connector M12 4-pole	B
08317821550	KJ4-M12MB60-DNÖ-V2	shielded	NPN	4	connector M12 4-pole	B
0831xxxxxxx	KJ4-M12MB50-DPA	shielded	PNP	4	2m cable PVC 4 x 0,34mm ²	A
0831xxxxxxx	KJ4-M12MB50-DNA	shielded	PNP	4	2m cable PVC 4 x 0,34mm ²	A
08310000388	KJ4-M12MB60-DPA-V2	shielded	NPN	4	connector M12 4-pole	B
0831xxxxxxx	KJ4-M12MB60-DNA-V2	shielded	NPN	4	connector M12 4-pole	B
08317821200	KJ6-M12MN50-DPS	non shielded	PNP	6	2m cable PVC 3 x 0,34mm ²	C
08317821600	KJ6-M12MN50-DPÖ	non shielded	PNP	6	2m cable PVC 3 x 0,34mm ²	C
08317821300	KJ6-M12MN50-DNS	non shielded	NPN	6	2m cable PVC 3 x 0,34mm ²	C
08317821700	KJ6-M12MN50-DNÖ	non shielded	NPN	6	2m cable PVC 3 x 0,34mm ²	C
08317821250	KJ6-M12MN60-DPS-V2	non shielded	PNP	6	connector M12 4-pole	D
08317821650	KJ6-M12MN60-DPÖ-V2	non shielded	PNP	6	connector M12 4-pole	D
08317821350	KJ6-M12MN60-DNS-V2	non shielded	NPN	6	connector M12 4-pole	D
08317821750	KJ6-M12MN60-DNÖ-V2	non shielded	NPN	6	connector M12 4-pole	D
0831xxxxxxx	KJ6-M12MN50-DPA	non shielded	PNP	6	2m cable PVC 4 x 0,34mm ²	C
0831xxxxxxx	KJ6-M12MN50-DNA	non shielded	PNP	6	2m cable PVC 4 x 0,34mm ²	C
0831xxxxxxx	KJ6-M12MN60-DPA-V2	non shielded	NPN	6	connector M12 4-pole	D
08310001176	KJ6-M12MN60-DNA-V2	non shielded	NPN	6	connector M12 4-pole	D

Other cable lengths as requested.



CYLINDER M12 - ADVANCED

Dimensions



all data in mm



CYLINDER M18 - SHORTIES

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA*
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ5... 800Hz KJ8... 500Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PCB

* KJ5-M18MB25-DPS: 100mA



Selection chart

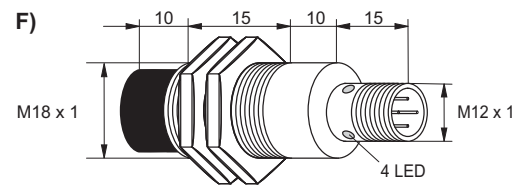
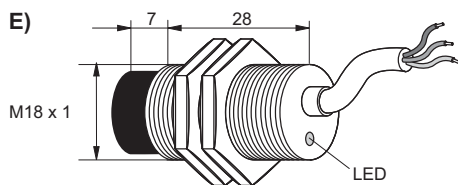
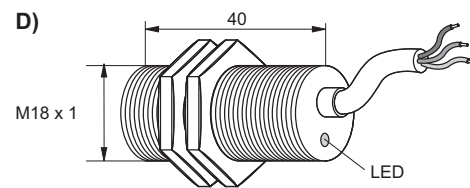
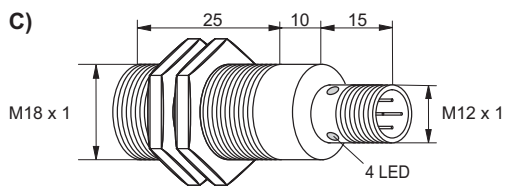
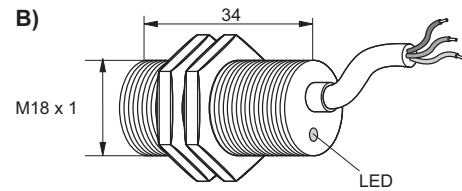
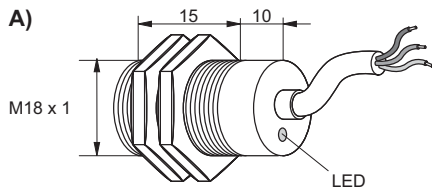
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000562	KJ5-M18MB25-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
08317842000	KJ5-M18MB35-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	B
08317842100	KJ5-M18MB35-DNS	shielded	NPN	5	2m cable PVC 3 x 0,34mm ²	B
08317842065	KJ5-M18MB50-DPS-V2	shielded	PNP	5	connector M12 4-pole	C
08317842165	KJ5-M18MB50-DNS-V2	shielded	NPN	5	connector M12 4-pole	C
08317844900	KJ8-M18MB40-DPS	shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	D
08317844800	KJ8-M18MB40-DNS	shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	D
08317844950	KJ8-M18MB50-DPS-V2	shielded	PNP	8	connector M12 4-pole	C
08317844850	KJ8-M18MB50-DNS-V2	shielded	NPN	8	connector M12 4-pole	C
08317842200	KJ8-M18MN35-DPS	non shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	E
08317842300	KJ8-M18MN35-DNS	non shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	E
08317842265	KJ8-M18MN50-DPS-V2	non shielded	PNP	8	connector M12 4-pole	F
08317842365	KJ8-M18MN50-DNS-V2	non shielded	NPN	8	connector M12 4-pole	F

Other cable lengths as requested.



CYLINDER M18 - SHORTIES

Dimensions



all data in mm



CYLINDER M18 - STANDARD

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ5... 800Hz KJ8... 500Hz
Hysteresis H	$\leq 15\%$
Repeatability R	-25°C ... +70°C
Temperature range T_a	$\leq 10\%$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PCB
(KJ5... and KJ8... cable versions: PA 6.6)	



Selection chart

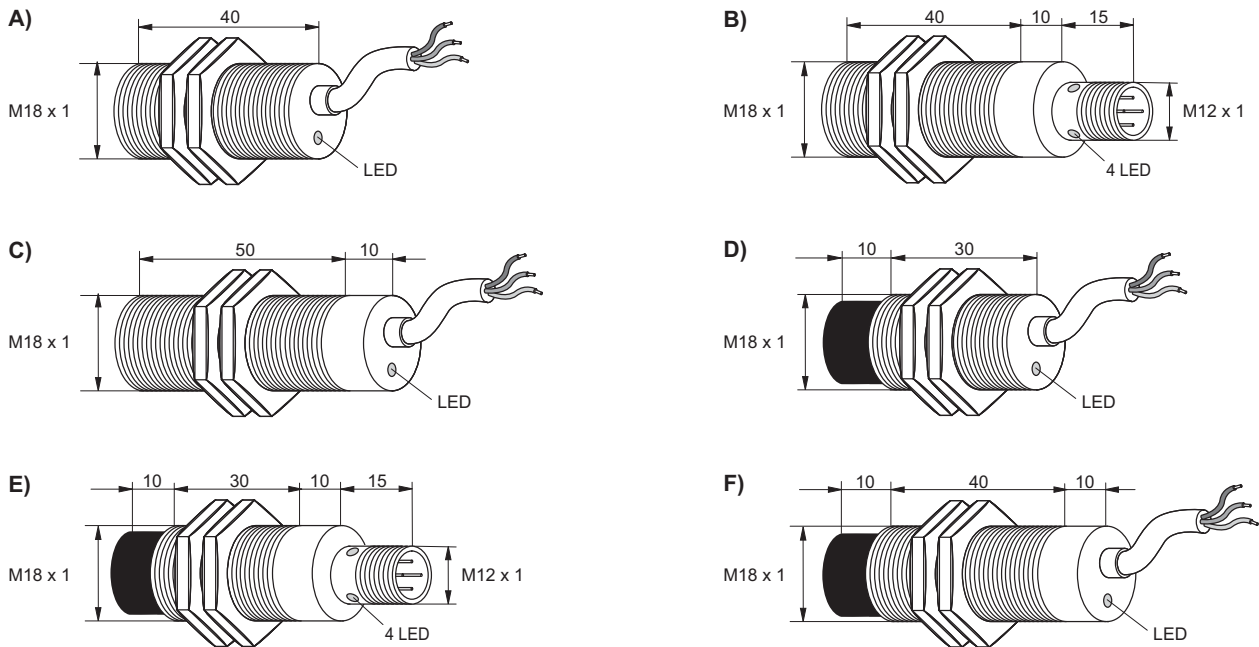
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317644000	KJ5-M18MB40-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
08317644400	KJ5-M18MB40-DPÖ	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
08317644100	KJ5-M18MB40-DNS	shielded	NPN	5	2m cable PVC 3 x 0,34mm ²	A
08317644500	KJ5-M18MB40-DNÖ	shielded	NPN	5	2m cable PVC 3 x 0,34mm ²	A
08317644065	KJ5-M18MB65-DPS-V2	shielded	PNP	5	connector M12 4-pole	B
08317644465	KJ5-M18MB65-DPÖ-V2	shielded	PNP	5	connector M12 4-pole	B
08317644165	KJ5-M18MB65-DNS-V2	shielded	NPN	5	connector M12 4-pole	B
08317644565	KJ5-M18MB65-DNÖ-V2	shielded	NPN	5	connector M12 4-pole	B
08317646200	KJ5-M18MB60-DPA	shielded	PNP	5	2m cable PVC 4 x 0,34mm ²	C
0831xxxxxxx	KJ5-M18MB60-DNA	shielded	NPN	5	2m cable PVC 4 x 0,34mm ²	C
08317644200	KJ8-M18MN40-DPS	non shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	D
08317644600	KJ8-M18MN40-DPÖ	non shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	D
08317644300	KJ8-M18MN40-DNS	non shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	D
08317644700	KJ8-M18MN40-DNÖ	non shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	D
08317644265	KJ8-M18MN65-DPS-V2	non shielded	PNP	8	connector M12 4-pole	E
08317644665	KJ8-M18MN65-DPÖ-V2	non shielded	PNP	8	connector M12 4-pole	E
08317644365	KJ8-M18MN65-DNS-V2	non shielded	NPN	8	connector M12 4-pole	E
08317644765	KJ8-M18MN65-DNÖ-V2	non shielded	NPN	8	connector M12 4-pole	E
08317646300	KJ8-M18MN60-DPA	non shielded	PNP	8	2m cable PVC 4 x 0,34mm ²	F
0831xxxxxxx	KJ8-M18MN60-DNA	non shielded	NPN	8	2m cable PVC 4 x 0,34mm ²	F

Other cable lengths as requested.



CYLINDER M18 - STANDARD

Dimensions



all data in mm



CYLINDER M18 - ADVANCED

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ8... 500Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PCB



Selection chart

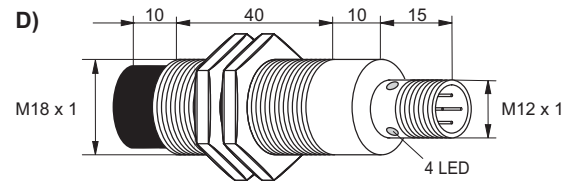
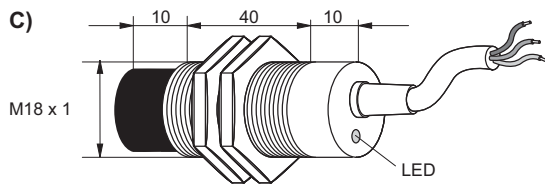
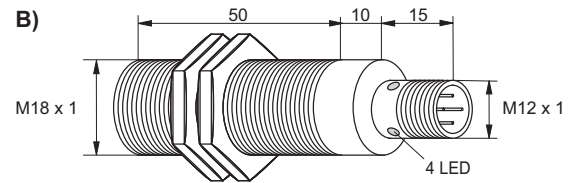
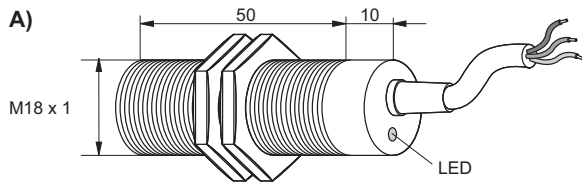
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317643900	KJ8-M18MB60-DPS	shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ8-M18MB60-DPÖ	shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ8-M18MB60-DNS	shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ8-M18MB60-DNÖ	shielded	NPN	8	2m cable PVC 3 x 0,34mm ²	A
08317643965	KJ8-M18MB75-DPS-V2	shielded	PNP	8	connector M12 4-pole	B
0831xxxxxxx	KJ8-M18MB75-DPÖ-V2	shielded	PNP	8	connector M12 4-pole	B
08310000525	KJ8-M18MB75-DNS-V2	shielded	NPN	8	connector M12 4-pole	B
0831xxxxxxx	KJ8-M18MB75-DNÖ-V2	shielded	NPN	8	connector M12 4-pole	B
0831xxxxxxx	KJ8-M18MB60-DPA	shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	A
08310000919	KJ8-M18MB75-DPA-V2	shielded	PNP	8	connector M12 4-pole	B
0831xxxxxxx	KJ12-M18MN60-DPS	non shielded	PNP	12	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ12-M18MN60-DPÖ	non shielded	PNP	12	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ12-M18MN60-DNS	non shielded	NPN	12	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ12-M18MN60-DNÖ	non shielded	NPN	12	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ12-M18MN75-DPS-V2	non shielded	PNP	12	connector M12 4-pole	D
0831xxxxxxx	KJ12-M18MN75-DPÖ-V2	non shielded	PNP	12	connector M12 4-pole	D
0831xxxxxxx	KJ12-M18MN75-DNS-V2	non shielded	NPN	12	connector M12 4-pole	D
0831xxxxxxx	KJ12-M18MN75-DNÖ-V2	non shielded	NPN	12	connector M12 4-pole	D
0831xxxxxxx	KJ12-M18MN60-DPA	non shielded	PNP	12	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ12-M18MN75-DPA-V2	non shielded	PNP	12	connector M12 4-pole	D

Other cable lengths as requested.



CYLINDER M18 - ADVANCED

Dimensions



all data in mm



CYLINDER G20

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	500Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	Trogamit T

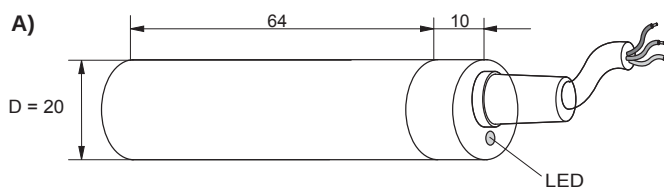


Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08310537100	KJ10-G20KN-DPS	non shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A
08310020051	KJ10-G20KN-DPÖ	non shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A
08310000503	KJ10-G20KN-DPA	non shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A

Other cable lengths as requested.

Dimensions



all data in mm



CYLINDER M30 - SHORTIES

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ10... 500Hz KJ15... 300Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PCB



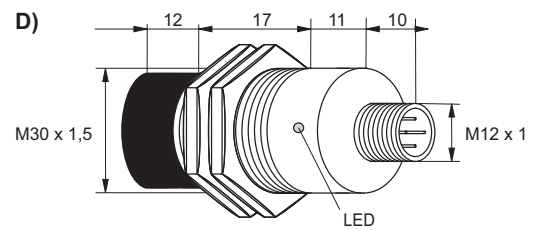
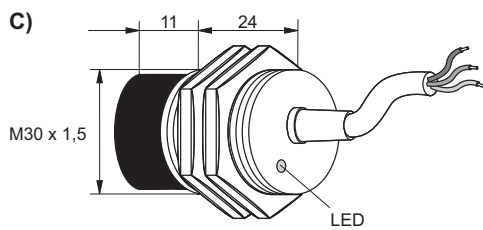
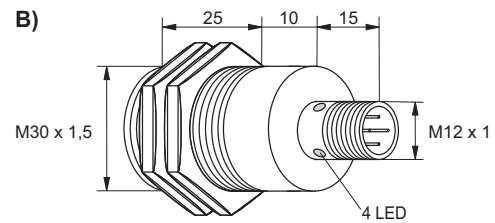
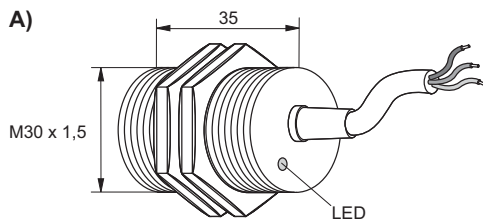
Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317862000	KJ10-M30MB35-DPS	shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A
08317862100	KJ10-M30MB35-DNS	shielded	NPN	10	2m cable PVC 3 x 0,34mm ²	A
08317862065	KJ10-M30MB50-DPS-V2	shielded	PNP	10	connector M12 4-pole	B
08317862165	KJ10-M30MB50-DNS-V2	shielded	NPN	10	connector M12 4-pole	B
08317862200	KJ15-M30MN35-DPS	non shielded	PNP	15	2m cable PVC 3 x 0,34mm ²	C
08317862300	KJ15-M30MN35-DNS	non shielded	NPN	15	2m cable PVC 3 x 0,34mm ²	C
08317862265	KJ15-M30MN50-DPS-V2	non shielded	PNP	15	connector M12 4-pole	D
08317862365	KJ15-M30MN50-DNS-V2	non shielded	NPN	15	connector M12 4-pole	D



CYLINDER M30 - SHORTIES

Dimensions



all data in mm



CYLINDER M30 - STANDARD

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ10... 500Hz KJ15... 300Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated



Selection chart

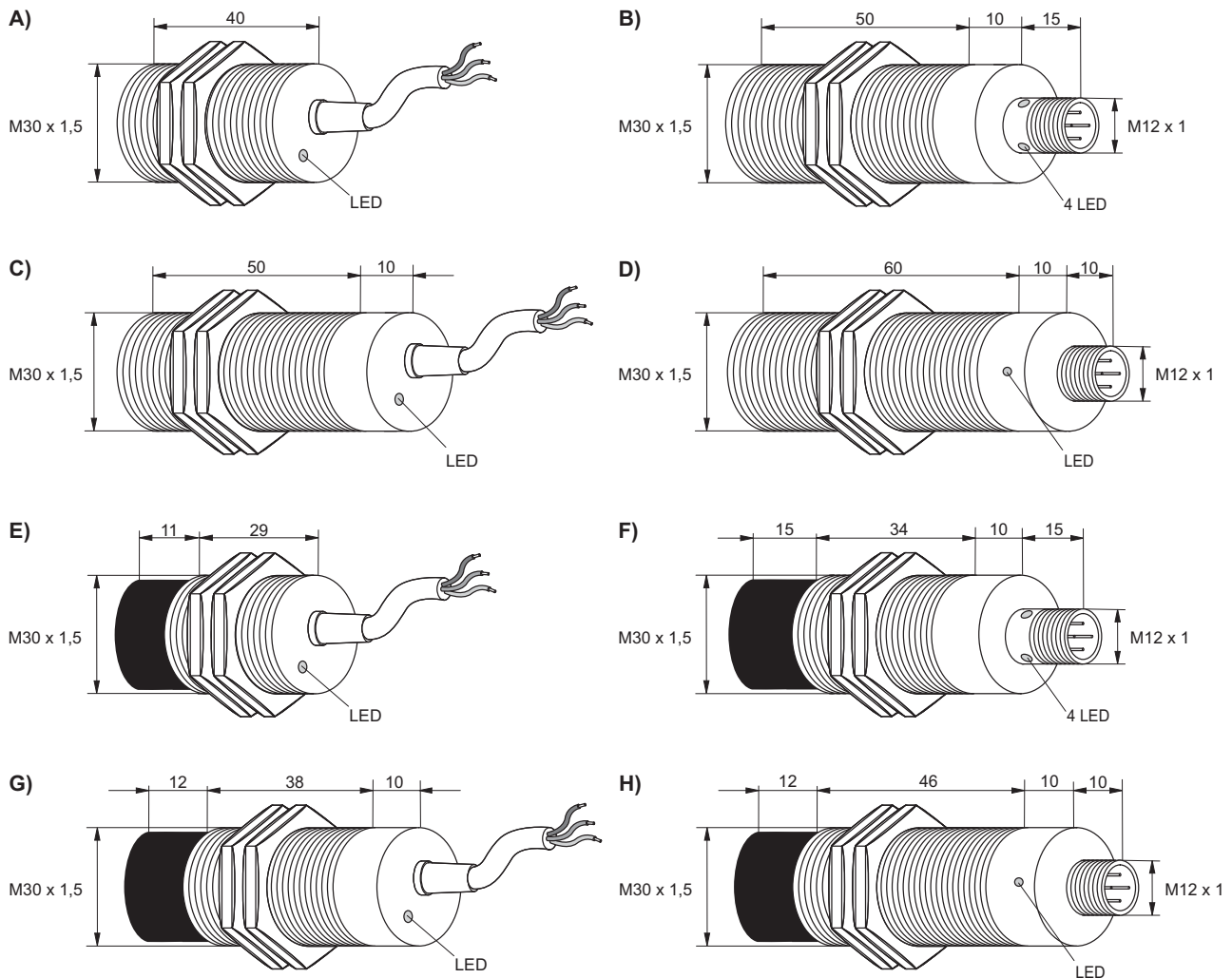
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317664000	KJ10-M30MB40-DPS	shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A
08317664400	KJ10-M30MB40-DPÖ	shielded	PNP	10	2m cable PVC 3 x 0,34mm ²	A
08317664100	KJ10-M30MB40-DNS	shielded	NPN	10	2m cable PVC 3 x 0,34mm ²	A
08317664500	KJ10-M30MB40-DNÖ	shielded	NPN	10	2m cable PVC 3 x 0,34mm ²	A
08317664065	KJ10-M30MB75-DPS-V2	shielded	PNP	10	connector M12 4-pole	B
08317664465	KJ10-M30MB75-DPÖ-V2	shielded	PNP	10	connector M12 4-pole	B
08317664165	KJ10-M30MB75-DNS-V2	shielded	NPN	10	connector M12 4-pole	B
08317664565	KJ10-M30MB75-DNÖ-V2	shielded	NPN	10	connector M12 4-pole	B
08317666200	KJ10-M30MB60-DPA	shielded	PNP	10	2m cable PVC 4 x 0,34mm ²	C
08317666265	KJ10-M30MB80-DPA-V2	shielded	PNP	10	2m cable PVC 4 x 0,34mm ²	D
08317664200	KJ15-M30MN40-DPS	non shielded	PNP	15	2m cable PVC 3 x 0,34mm ²	E
08317664600	KJ15-M30MN40-DPÖ	non shielded	PNP	15	2m cable PVC 3 x 0,34mm ²	E
08317664300	KJ15-M30MN40-DNS	non shielded	NPN	15	2m cable PVC 3 x 0,34mm ²	E
08317664700	KJ15-M30MN40-DNÖ	non shielded	NPN	15	2m cable PVC 3 x 0,34mm ²	E
08317664265	KJ15-M30MN75-DPS-V2	non shielded	PNP	15	connector M12 4-pole	F
08317664665	KJ15-M30MN75-DPÖ-V2	non shielded	PNP	15	connector M12 4-pole	F
08317664365	KJ15-M30MN75-DNS-V2	non shielded	NPN	15	connector M12 4-pole	F
08317664765	KJ15-M30MN75-DNÖ-V2	non shielded	NPN	15	connector M12 4-pole	F
08317666300	KJ15-M30MN60-DPA	non shielded	PNP	15	2m cable PVC 4 x 0,34mm ²	G
08317666365	KJ15-M30MN80-DPA-V2	non shielded	PNP	15	2m cable PVC 4 x 0,34mm ²	H

Other cable lengths as requested.



CYLINDER M30 - STANDARD

Dimensions



all data in mm



CYLINDER M30 - ADVANCED

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	KJ15... 500Hz KJ30... 300Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PA 6.6



Selection chart

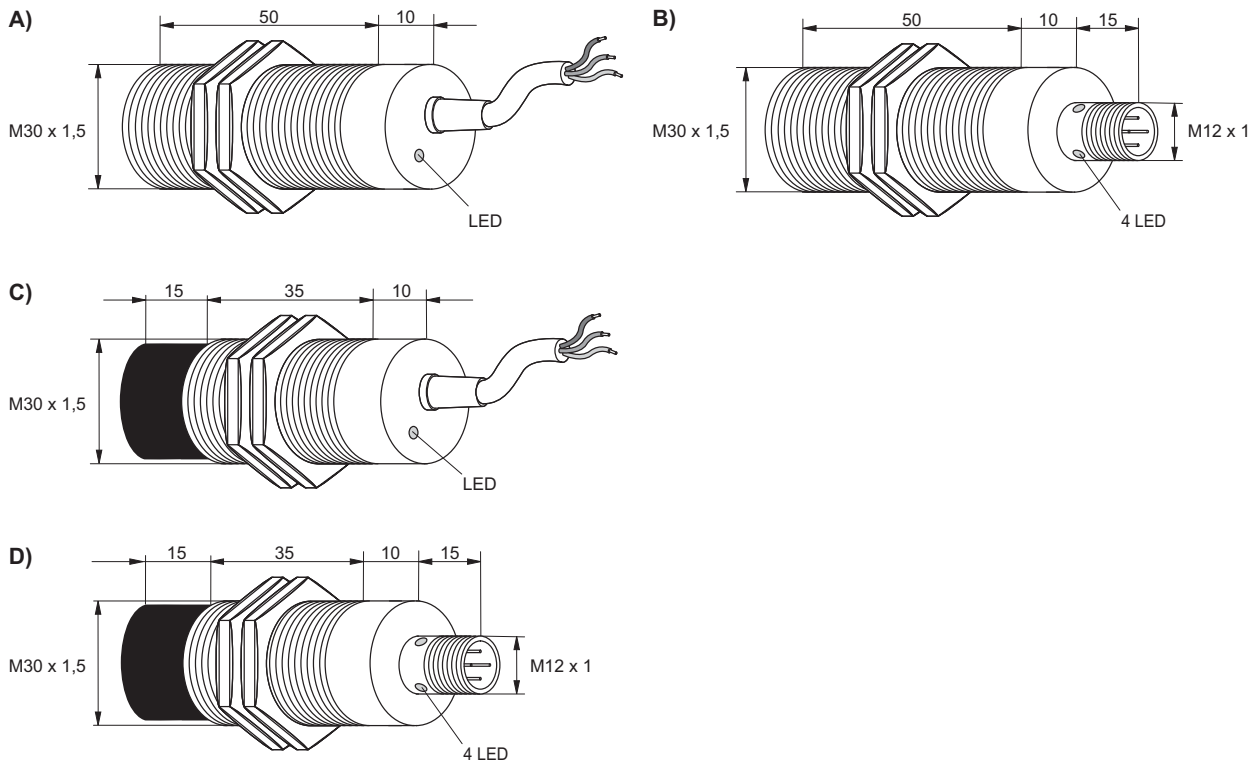
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317663900	KJ15-M30MB60-DPS	shielded	PNP	15	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ15-M30MB60-DPÖ	shielded	PNP	15	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ15-M30MB60-DNS	shielded	NPN	15	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ15-M30MB60-DNÖ	shielded	NPN	15	2m cable PVC 3 x 0,34mm ²	A
08317663965	KJ15-M30MB75-DPS-V2	shielded	PNP	15	connector M12 4-pole	B
0831xxxxxxx	KJ15-M30MB75-DPÖ-V2	shielded	PNP	15	connector M12 4-pole	B
0831xxxxxxx	KJ15-M30MB75-DNS-V2	shielded	NPN	15	connector M12 4-pole	B
0831xxxxxxx	KJ15-M30MB75-DNÖ-V2	shielded	NPN	15	connector M12 4-pole	B
08310000762	KJ30-M30MN60-DPS	non shielded	PNP	30	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ30-M30MN60-DPÖ	non shielded	PNP	30	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ30-M30MN60-DNS	non shielded	NPN	30	2m cable PVC 3 x 0,34mm ²	C
0831xxxxxxx	KJ30-M30MN60-DNÖ	non shielded	NPN	30	2m cable PVC 3 x 0,34mm ²	C
08310000717	KJ30-M30MN75-DPS-V2	non shielded	PNP	30	connector M12 4-pole	D
0831xxxxxxx	KJ30-M30MN75-DPÖ-V2	non shielded	PNP	30	connector M12 4-pole	D
0831xxxxxxx	KJ30-M30MN75-DNS-V2	non shielded	NPN	30	connector M12 4-pole	D
0831xxxxxxx	KJ30-M30MN75-DNÖ-V2	non shielded	NPN	30	connector M12 4-pole	D

Other cable lengths as requested.



CYLINDER M30 - ADVANCED

Dimensions



all data in mm



CYLINDER G34 - ADVANCED

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	200Hz (antivalent 300Hz)
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature range T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	brass nickel-plated
Front cap	PA 6.6

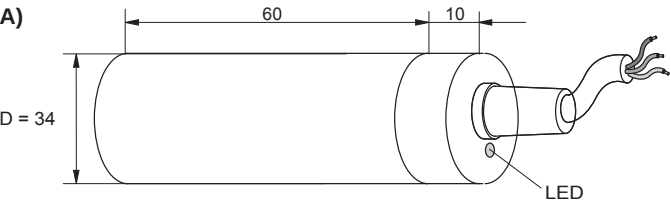


Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08310000485	KJ20-G34KN-DPS	non shielded	PNP	20	2m cable PVC 3 x 0,34mm ²	A
08310000622	KJ20-G34KN-DPÖ	non shielded	PNP	20	2m cable PVC 3 x 0,34mm ²	A
08310000450	KJ20-G34KN-DPA	non shielded	PNP	20	2m cable PVC 4 x 0,34mm ²	A

Version NPN and other cable lengths as requested.

Dimensions



all data in mm



TABLE OF CONTENT

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Cylinder M30	73



NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆
1	2	3	4	5	6	7	8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



CYLINDER M8

General data

Operating voltage U_b	nom. 8,2V DC Ri 1K
Ripple voltage U_b	$\leq 5\%$
Reverse voltage protection	yes
Load current alive	$< 1,1\text{mA}$
Load current dead	$> 2,2\text{mA}$
Hysteresis H	see control unit
Repeatability R	$\leq 10\%$
Operating temperature T_a	$-25^\circ\text{C} \dots +60^\circ\text{C}$ (high temperature max. $+125^\circ\text{C}$)
Temperature drift	$\leq 10\%$
Protection class	IP67
Necessity of control unit	yes
EMV-standard	according to EN 60947-5-6
Housing material	Standard: brass, nickel-plated High temperature: Arnite Plastic: Trogamid T
Front cap	PCP (brass housing)



The drawings of these sensors are shown on the following page.

Selection chart brass

Article number	Designation switching distance 1mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317320100	KJ1-M8MB30-NA	2000Hz	shielded	2m cable PVC 2 x 0,14mm ²	A
08317320165	KJ1-M8MB50-NA-V2	2000Hz	shielded	connector M12 4-pole	B
	Designation switching distance 2mm				
08317320200	KJ2-M8MN30-NA	1000Hz	non shielded	2m cable PVC 2 x 0,14mm ²	C
08317320265	KJ2-M8MN50-NA- V2	1000Hz	non shielded	connector M12 4-pole	D

Selection chart plastic

Article number	Designation switching distance 2mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317321600	KJ2-M8KN30-NA	1000Hz	non shielded	2m cable PVC 2 x 0,14mm ²	A

Selection chart high temperature

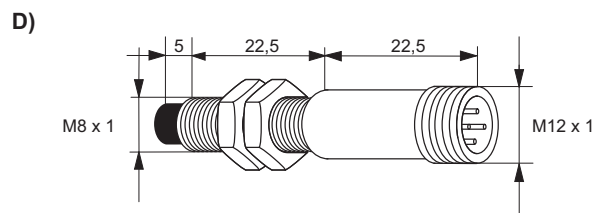
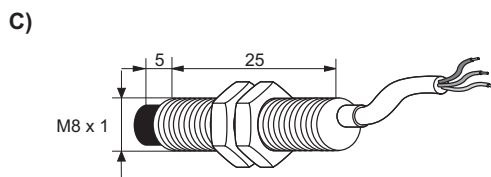
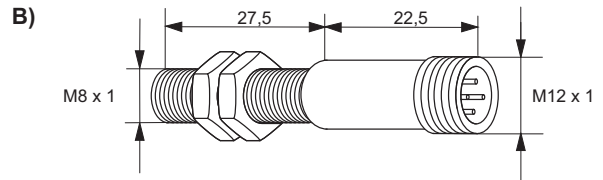
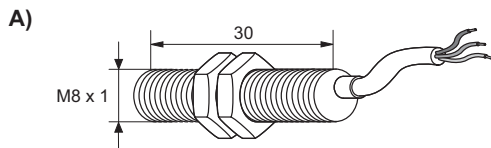
Article number	Designation switching distance 2mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317321632	KJ2-M8KN30-NA-HT	1000Hz	non shielded	5m cable PTFE 2 x 0,25mm ²	A

Other cable lengths as requested.



CYLINDER M8

Dimensions



all data in mm



CYLINDER M12

General data

Operating voltage U_b	nom. 8,2V DC Ri 1K
Ripple voltage U_b	$\leq 5\%$
Reverse voltage protection	yes
Load current alive	$< 1,1\text{mA}$
Load current dead	$> 2,2\text{mA}$
Hysteresis H	see control unit
Repeatability R	$\leq 10\%$
Operating temperature T_a	$-25^\circ\text{C} \dots +60^\circ\text{C}$ (high temperature max. $+125^\circ\text{C}$)
Temperature drift	$\leq 10\%$
Protection class	IP67
Necessity of control unit	yes
EMV-standard	according to EN 60947-5-6
Housing material	Standard: brass, nickel-plated High temperature: Arnite Plastic: Trogamid T
Front cap	PCP (brass housing)



The drawings of these sensors are shown on the following page.

Selection chart brass

Article number	Designation switching distance 2mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317320300	KJ2-M12MB30-NA	2000Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
08317320365	KJ2-M12MB55-NA-V2	2000Hz	shielded	connector M12 4-pole	B
	Designation switching distance 4mm				
08317320400	KJ4-M12MN30-NA	1000Hz	non shielded	2m cable PVC 2 x 0,25mm ²	C
08317320465	KJ4-M12MN50-NA-V2	1000Hz	non shielded	connector M12 4-pole	D

Selection chart plastic

Article number	Designation switching distance 2mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
083173211000	KJ2-M12KB30-NA	2000Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
	Designation switching distance 4mm				
08317321000	KJ4-M12KN30-NA	1000Hz	non shielded	2m cable PVC 2 x 0,25mm ²	A

Other cable lengths as requested.



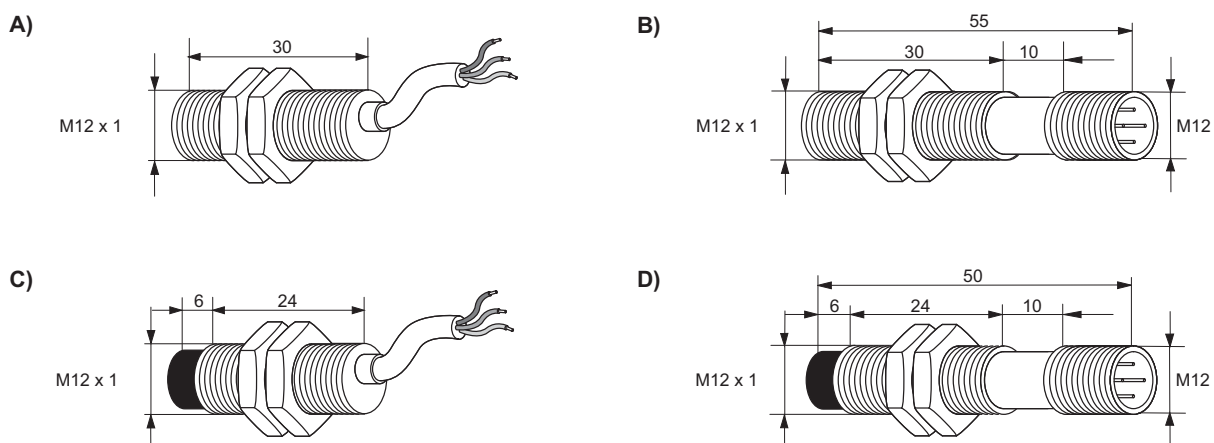
CYLINDER M12

Selection chart high temperature

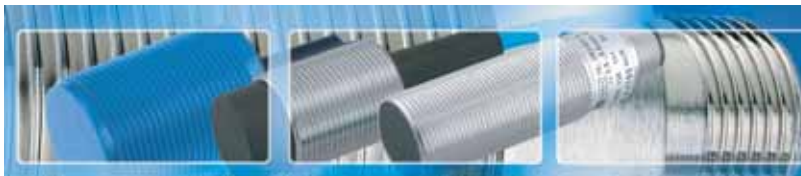
Article number	Designation switching distance 4mm	Max. switching frequency	Mounting	Connection	Drawing
08317321032	KJ4-M12KN30-NA-HT	1000Hz	non shielded	5m cable PTFE 2 x 0,25mm ²	A

Other cable lengths as requested.

Dimensions



all data in mm



INDUCTIVE SENSORS NAMUR

CYLINDER M18

General data

Operating voltage U_b	nom. 8,2V DC Ri 1K
Ripple voltage U_b	$\leq 5\%$
Reverse voltage protection	yes
Load current alive	$< 1,1\text{mA}$
Load current dead	$> 2,2\text{mA}$
Hysteresis H	see control unit
Repeatability R	$\leq 10\%$
Operating temperature T_a	$-25^\circ\text{C} \dots +60^\circ\text{C}$
Temperature drift	$\leq 10\%$
Protection class	IP67
Necessity of control unit	yes
EMV-standard	according to EN 60947-5-6
Housing material	Standard: brass, nickel-plated Plastic: Trogamid T
Front cap	PCP (brass housing)



The drawings of these sensors are shown on the following page.

Selection chart brass

Article number	Designation switching distance 5mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317320500	KJ5-M18MB30-NA	1000Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
08317320565	KJ5-M18MB50-NA-V2	1000Hz	shielded	connector M12 4-pole	B
	Designation switching distance 8mm				
08317320600	KJ8-M18MN30-NA	500Hz	non shielded	2m cable PVC 2 x 0,25mm ²	C
08317320665	KJ8-M18MN50-NA-V2	500Hz	non shielded	connector M12 4-pole	D

Selection chart plastic

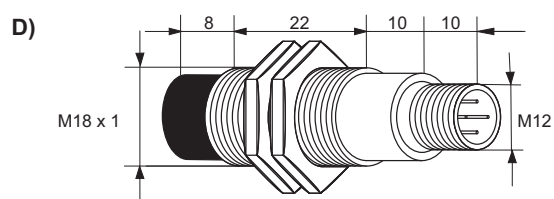
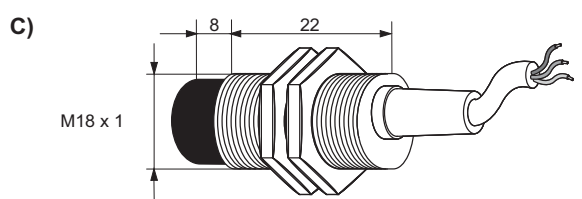
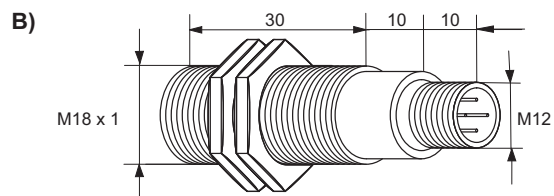
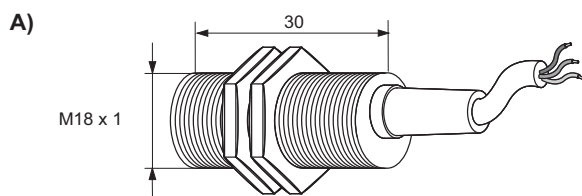
Article number	Designation switching distance 5mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317321300	KJ5-M18KB30-NA	1000Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
	Designation switching distance 8mm				
08317321200	KJ8-M18KN30-NA	500Hz	non shielded	2m cable PVC 2 x 0,25mm ²	A

Other cable lengths as requested.



CYLINDER M18

Dimensions



all data in mm



CYLINDER M30

General data

Operating voltage U_b	nom. 8,2V DC Ri 1K
Ripple voltage U_b	$\leq 5\%$
Reverse voltage protection	yes
Load current alive	$< 1,1\text{mA}$
Load current dead	$> 2,2\text{mA}$
Hysteresis H	see control unit
Repeatability R	$\leq 10\%$
Operating temperature T_a	$-25^\circ\text{C} \dots +60^\circ\text{C}$
Temperature drift	$\leq 10\%$
Protection class	IP67
Necessity of control unit	yes
EMV-standard	according to EN 60947-5-6
Housing material	Standard: brass, nickel-plated Plastic: Trogamid T
Front cap	PCP (brass housing)



The drawings of these sensors are shown on the following page.

Selection chart brass

Article number	Designation switching distance 10mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317320700	KJ10-M30MB40-NA	500Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
08317320765	KJ10-M30MB60-NA-V2	500Hz	shielded	connector M12 4-pole	B
	Designation switching distance 15mm				
08317320800	KJ15-M30MN40-NA	300Hz	non shielded	2m cable PVC 2 x 0,25mm ²	C
08317320865	KJ15-M30MN60-NA-V2	300Hz	non shielded	connector M12 4-pole	D

Auswahltable Kunststoff

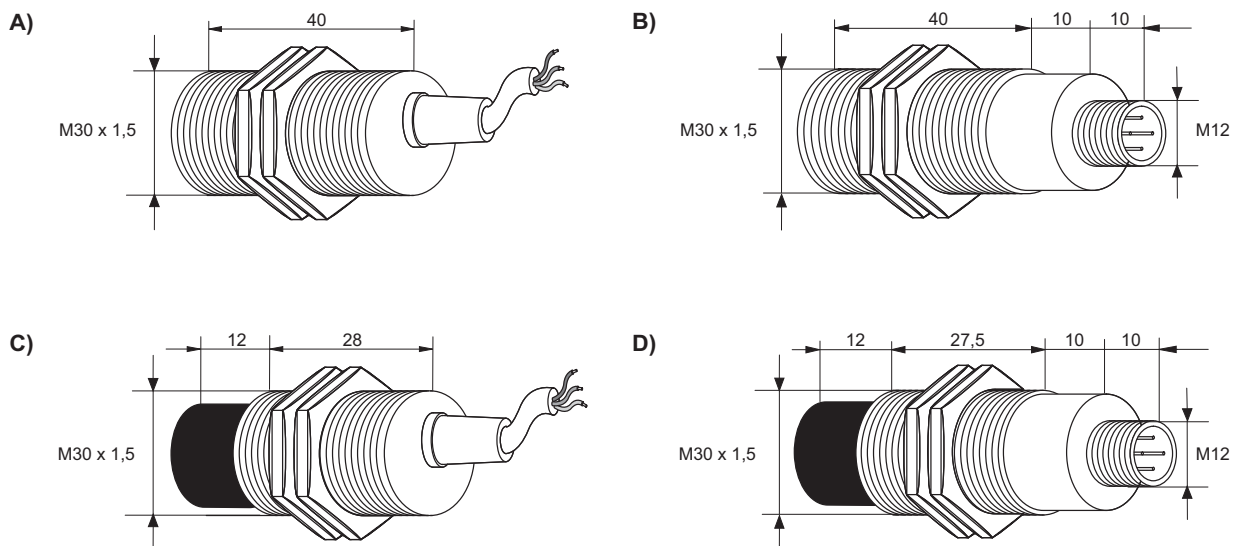
Article number	Designation switching distance 10mm	Max. switching frequency	Mounting	Connection	Drawing (next page)
08317321500	KJ10-M30KB40-NA	500Hz	shielded	2m cable PVC 2 x 0,25mm ²	A
	Designation switching distance 15mm				
08317321400	KJ15-M30KN40-NA	300Hz	non shielded	2m cable PVC 2 x 0,25mm ²	A

Other cable lengths as requested.



CYLINDER M30

Dimensions



all data in mm



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NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

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11
12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



FUNCTIONAL DESCRIPTION

Ring sensors use the energy variations in a resonant circuit caused by eddy current losses in conductive materials. Thus they detect all types of conductive material. Ring sensors from Pulsotronic are used for object counting tasks, wire gauge measuring, wire break control or for presence check. The product range of Pulsotronic comprehends digital and analog ring sensors.

An oscillator in the sensor excites a high-frequency, electromagnetic alternating field. Due to the axially symmetric coil arrangement an almost homogeneous field is realised. The ferrite core and the sensor housing concentrate the field lines of the alternating field in the center of the ring. Metal entering in the sensor causes eddy currents that withdraw energy from the field. This leads to a damping and a voltage fluctuation in the sensor. The electronics in the sensor evaluates this variation.

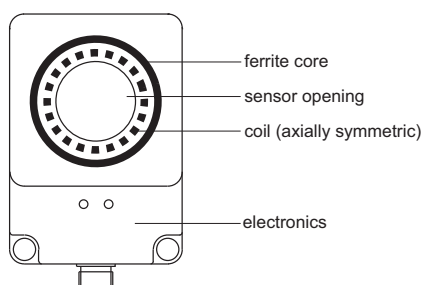


Illustration 1: front view ring sensor

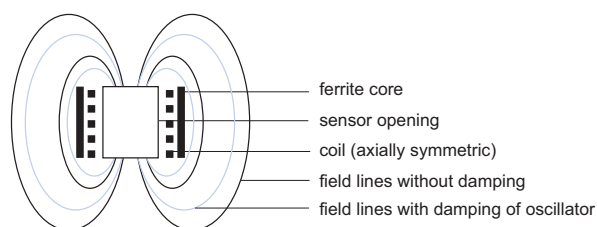


Illustration 2: course of field lines in the sensor
(top view ring sensor)

Digital ring sensors

Digital ring sensors are classified into static sensors (normal sensitivity) and dynamic sensors (high sensitivity). As long as metal is situated in the sensor, the static sensor excites a permanent signal. Only when metal is removed from the sensor the signal deactivates. Static sensors detect moving and non moving objects. Dynamic sensors only excite a short pulse when metal is detected. They only detect moving objects.

Analog ring sensors

Like static sensors analog sensors excite a permanent signal which depends on the dimension and the position of the metallic object in the sensor. The bigger the metallic object, the bigger the output voltage of the sensor.



APPLICATIONS

Wire break control

For this type of applications static sensors are used. The oscillator in the sensor excites a high-frequency alternating field. The wire passes through the sensor and withdraws energy from the resonant circuit. As long as the wire is moved through the sensor without interruption the sensor excites a constant signal because the damping of the oscillator is not alternating. A wire break leads to a damping of the oscillator. The sensor switches due to the voltage fluctuation.



Object counting, presence check

In the sensor is a high-frequency alternating field. When a metallic object passes the sensor it withdraws energy from the field and leads to a voltage fluctuation in the oscillator. When the object quits the sensor, the oscillator takes its' normal value until the next object causes a new damping. Thus for example the ejection of stamping parts can be monitored. Ring sensors detect free-falling products as well as products being led in a tube through the sensor. The user can detect and count metallic objects. Ring sensors detect metallic contamination in non-metallic materials (e.g. synthetic granules). As moving parts are detected, dynamic and static sensors can be applied.

Wire gauge measuring, object identification

The wire passes through the sensor and withdraws energy from the resonant circuit. The degree of the energy loss depends on the dimension of the wire. The thicker the wire, the bigger the loss of energy and the bigger the voltage fluctuation in the sensor. The value of the voltage fluctuation provides information about the quantity of material in the field. By this it is possible to detect also other metallic objects. Depending on the size and the material of the object the sensor provides an according output voltage. Thus the user can make the distinction between different products. A possible application is a sorting device for small parts.





NORMAL SENSITIVITY (STATIC PRINCIPLE)

General data

Mounting	non shielded
Operating voltage U_b	10 ... 30V DC (KJR-D100FAN... 18 - 30V DC)
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	$\leq 200mA$ (KJR-Q130... $\leq 50mA$)
Off-state current I_o	KJR-D6... to KJR-D100...: $\leq 15mA$ KJR-D130... to KJR-D300...: $\leq 10mA$
Residual current	$\leq 10\mu A$
Hysteresis H	$\leq 15\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Sensitivity over temp. range	see sensitivity
Protection class	IP54
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	KJR-D6... to KJR-D30: Ultramid B3EG3 KJR-D50... to KJR-D300: Aluminium
Connection	connector M12 4-pole



Selection chart

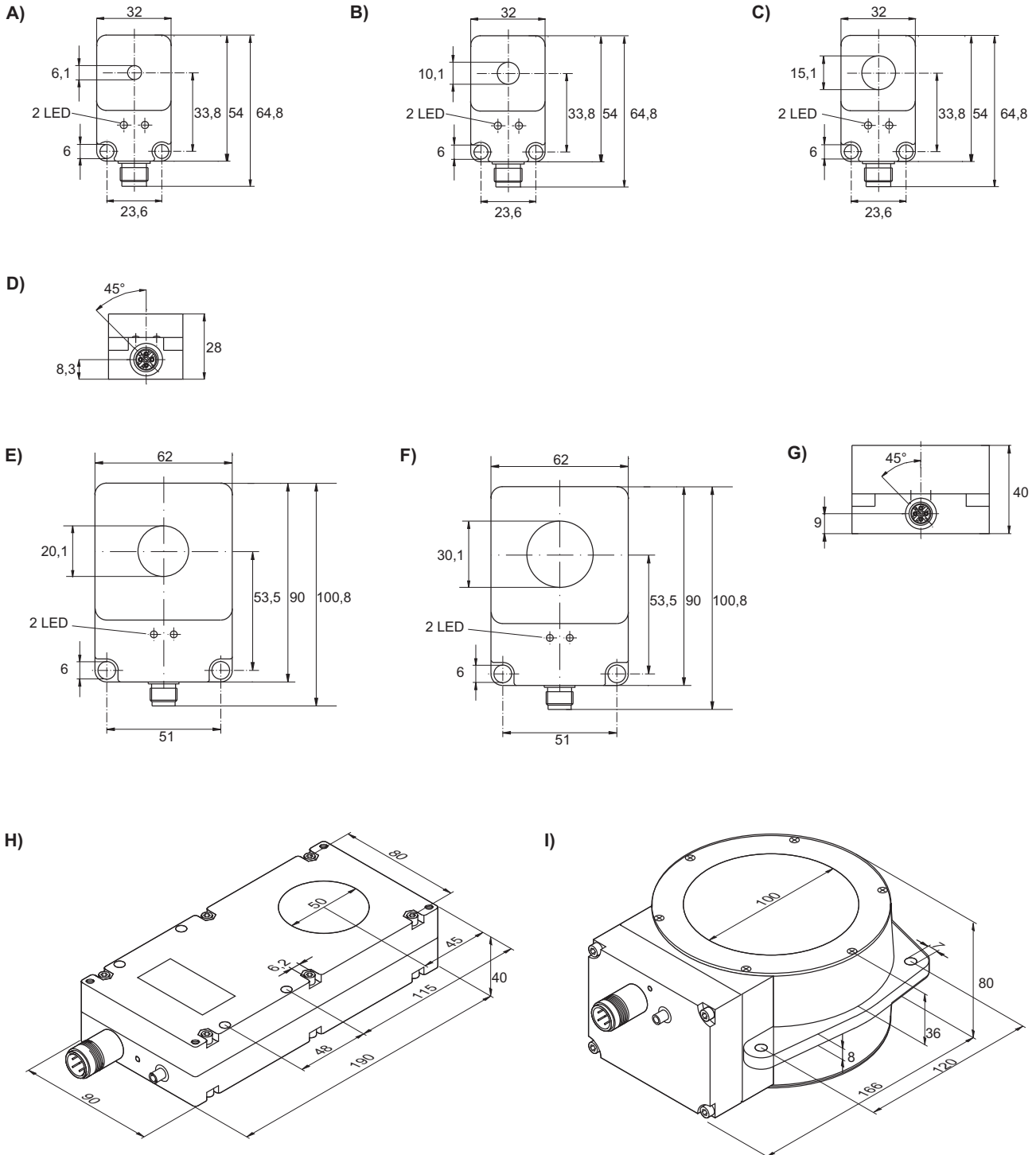
Article number	Designation	Output signal	Sensitivity	Max. switching frequency f	Drawing (next page)
08310000982	KJR-D6KN-DPA-V2	PNP	FE-ball D=1,5mm	600Hz	A + D
08310000983	KJR-D6KN-DNA-V2	NPN	FE-ball D=1,5mm	600Hz	A + D
08310000984	KJR-D10KN-DPA-V2	PNP	FE-ball D=1,8mm	600Hz	B + D
08310000985	KJR-D10KN-DNA-V2	NPN	FE-ball D=1,8mm	600Hz	B + D
08310000986	KJR-D15-KN-DPA-V2	PNP	FE-ball D=2,4mm	500Hz	C + D
08310000987	KJR-D15-KN-DNA-V2	NPN	FE-ball D=2,4mm	500Hz	C + D
08310000988	KJR-D20KN-DPA-V2	PNP	FE-ball D=3,0mm	400Hz	E + G
08310000989	KJR-D20KN-DNA-V2	NPN	FE-ball D=3,0mm	400Hz	E + G
08310000990	KJR-D30KN-DPA-V2	PNP	FE-ball D=4,0mm	300Hz	F + G
08310000991	KJR-D30KN-DNA-V2	NPN	FE-ball D=4,0mm	300Hz	F + G
08317050665	KJR-D50FAN-DPA-V2	PNP	FE-ball D=3,0mm	500Hz	H
08317050265	KJR-D50FAN-DNA-V2	NPN	FE-ball D=3,0mm	500Hz	H
08317080565	KJR-D100AN-DPA-V2	PNP	FE-ball D=6,0mm	500Hz	I
08317080150	KJR-D100AN-DNA-V2	NPN	FE-ball D=6,0mm	500Hz	I
08317080365	KJR-D100FAN-DPA-V2	PNP	FE-ball D=8,0mm	500Hz	J
08317080465	KJR-D100FAN-DNA-V2	NPN	FE-ball D=8,0mm	500Hz	J
08417090659	KJR-Q130AN-DPA-VE	PNP	FE-ball D=12,0mm	300Hz	K
08317090159	KJR-Q130AN-DNA-VE	NPN	FE-ball D=12,0mm	300Hz	K
08317160665	KJR-D200AN-DPA-V2	PNP	FE-ball D=15,0mm	300Hz	L
08317160165	KJR-D200AN-DNA-V2	NPN	FE-ball D=15,0mm	300Hz	L
08317070665	KJR-D300AN-DPA-V2	PNP	FE-ball D=30,0mm	300Hz	M
08317071165	KJR-D300AN-DNA-V2	NPN	FE-ball D=30,0mm	300Hz	M

Control unit and accessories on pages 15 and 16.



NORMAL SENSITIVITY (STATIC PRINCIPLE)

Dimensions



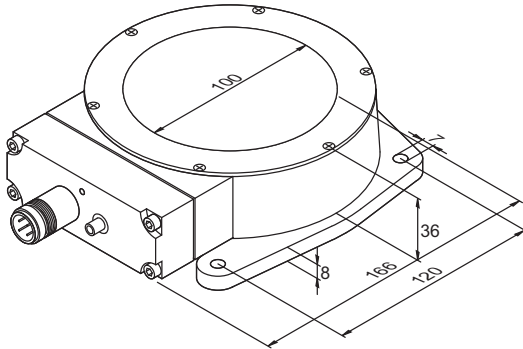
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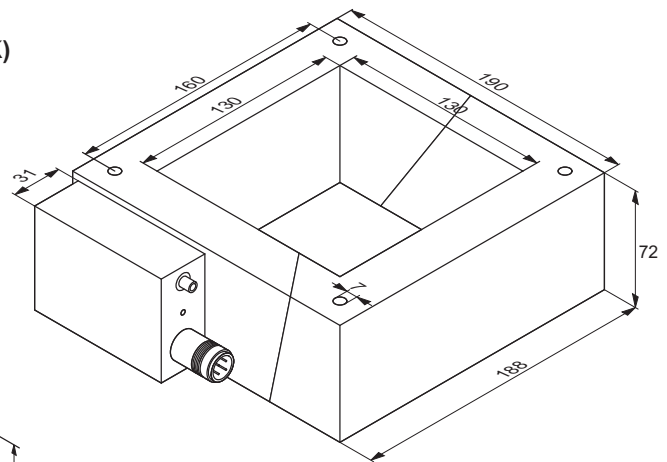
NORMAL SENSITIVITY (STATIC PRINCIPLE)

Dimensions

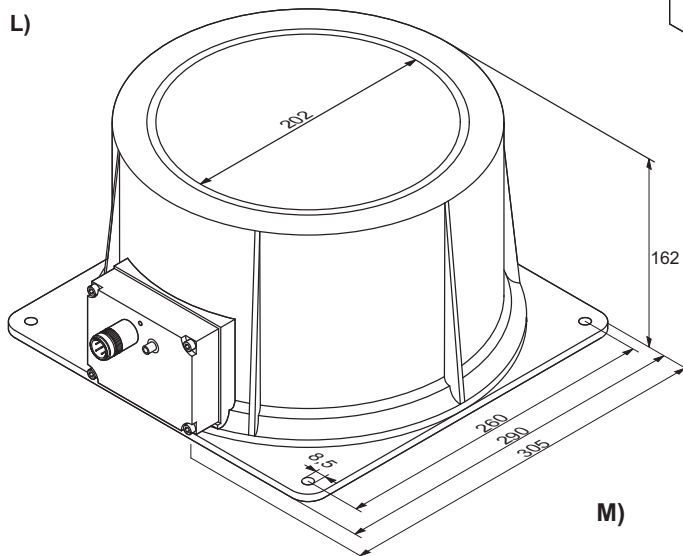
J)



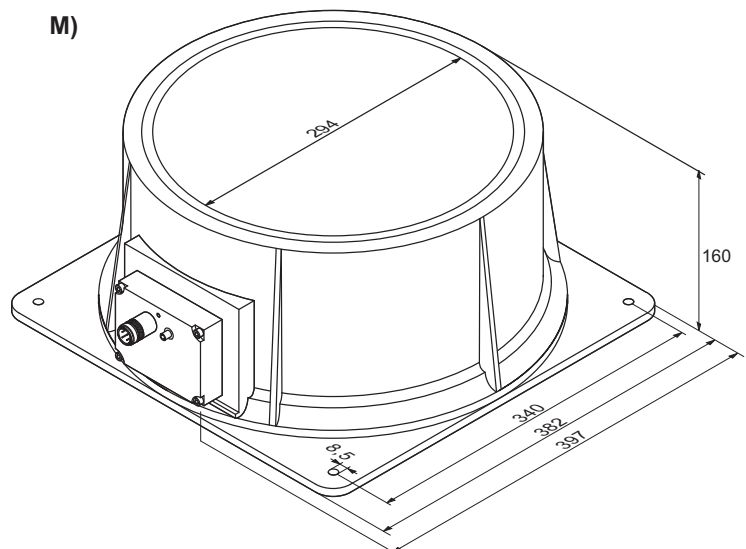
K)



L)



M)



all data in mm



HIGH SENSITIVITY (DYNAMIC PRINCIPLE)

General data

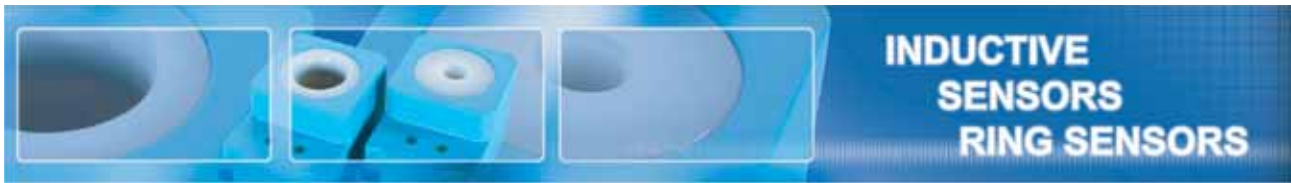
Mounting	non shielded
Operating voltage U_b	11 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	KJR-D6... to KJR-D30: $\leq 200mA$ KJR-D50... to KJR-D300: $\leq 50mA$
Off-state current I_o	KJR-D6... to KJR-D30: $\leq 15mA$ KJR-D50... to KJR-D300: $\leq 25mA$
Hysteresis H	$\leq 15\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Sensitivity over temp. range	see sensitivity
Protection class	IP54
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	KJR-D6... to KJR-D30: Ultramid B3EG3 KJR-D50... to KJR-D300: Aluminium
Connection	connector M12 4-pole



Selection chart

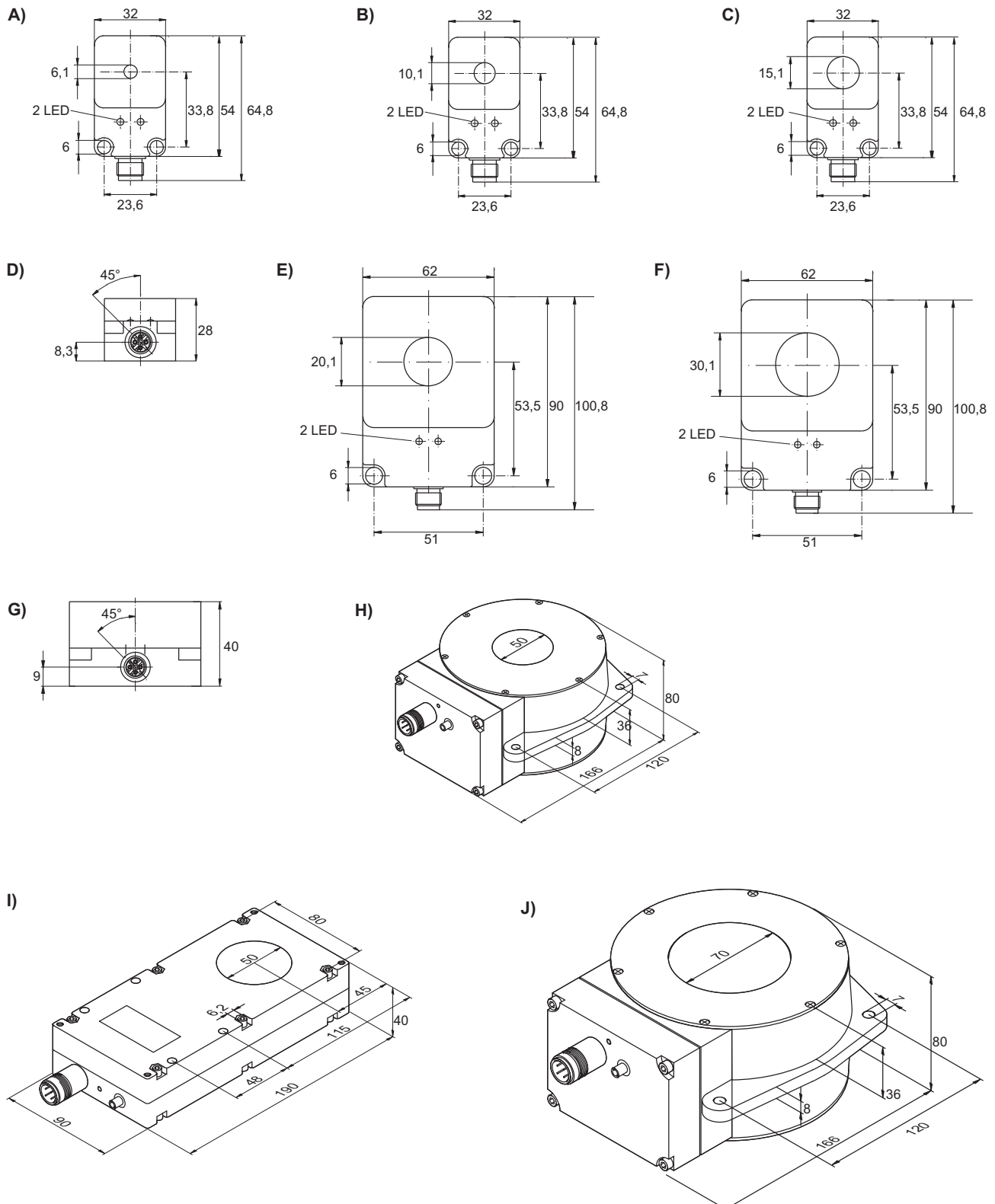
Article number	Designation	Output signal	Sensitivity * = adjustable	Max. switching frequency	Residual current	Drawing (next page)
08310001003	KJR-D6KN-DPIA-V2	PNP	FE-ball D=0,4mm	10Hz	10 μ A	A + D
08310001008	KJR-D6KN-DNIA-V2	NPN	FE-ball D=0,4mm	10Hz	10 μ A	A + D
08310001004	KJR-D10KN-DPIA-V2	PNP	FE-ball D=0,5mm	10Hz	10 μ A	B + D
08310001009	KJR-D10KN-DNIA-V2	NPN	FE-ball D=0,5mm	10Hz	10 μ A	B + D
08310001005	KJR-D15-KN-DPIA-V2	PNP	FE-ball D=0,6mm	10Hz	10 μ A	C + D
08310001010	KJR-D15-KN-DNIA-V2	NPN	FE-ball D=0,6mm	10Hz	10 μ A	C + D
08310001006	KJR-D20KN-DPIA-V2	PNP	FE-ball D=0,7mm	10Hz	10 μ A	E + G
08310001011	KJR-D20KN-DNIA-V2	NPN	FE-ball D=0,7mm	10Hz	10 μ A	E + G
08310001007	KJR-D30KN-DPIA-V2	PNP	FE-ball D=1,0mm	10Hz	10 μ A	F + G
08310001012	KJR-D30KN-DNIA-V2	NPN	FE-ball D=1,0mm	10Hz	10 μ A	F + G
08317010865	KJR-D50FAN-DPIA-V2	PNP	FE-ball D=0,6mm*	100Hz	50 μ A	H
08317010765	KJR-D50AN-DNIA-V2	NPN	FE-ball D=0,6mm*	100Hz	50 μ A	H
08317010265	KJR-D50FAN-DNIA-V2	PNP	FE-ball D=1,0mm*	100Hz	50 μ A	I
08317110065	KJR-D70AN-DNIA-V2	NPN	FE-ball D=1,0mm*	100Hz	50 μ A	J
08317000265	KJR-D100AN-DPIA-V2	PNP	FE-ball D=1,3mm*	100Hz	50 μ A	K
08317000165	KJR-D100AN-DNIA-V2	NPN	FE-ball D=1,3mm*	100Hz	50 μ A	K
08317090359	KJR-Q130AN-DNIA-VE	PNP	FE-ball D=5,0mm	100Hz	500 μ A	L
08317030265	KJR-D200AN-DPIA-V2	NPN	FE-ball D=3,0mm	100Hz	50 μ A	M
08317030165	KJR-D200AN-DNIA-V2	PNP	FE-ball D=3,0mm	100Hz	50 μ A	M
08317090259	KJR-Q290AN-DNIA-VE	NPN	FE-ball D=12,0mm	100Hz	500 μ A	N
08317040265	KJR-D300AN-DPIA-V2	PNP	FE-ball D=4,0mm	100Hz	50 μ A	O
08317040165	KJR-D300AN-DNIA-V2	NPN	FE-ball D=4,0mm	100Hz	50 μ A	O

Control unit and accessories on pages 15 and 16.



HIGH SENSITIVITY (DYNAMIC PRINCIPLE)

Dimensions

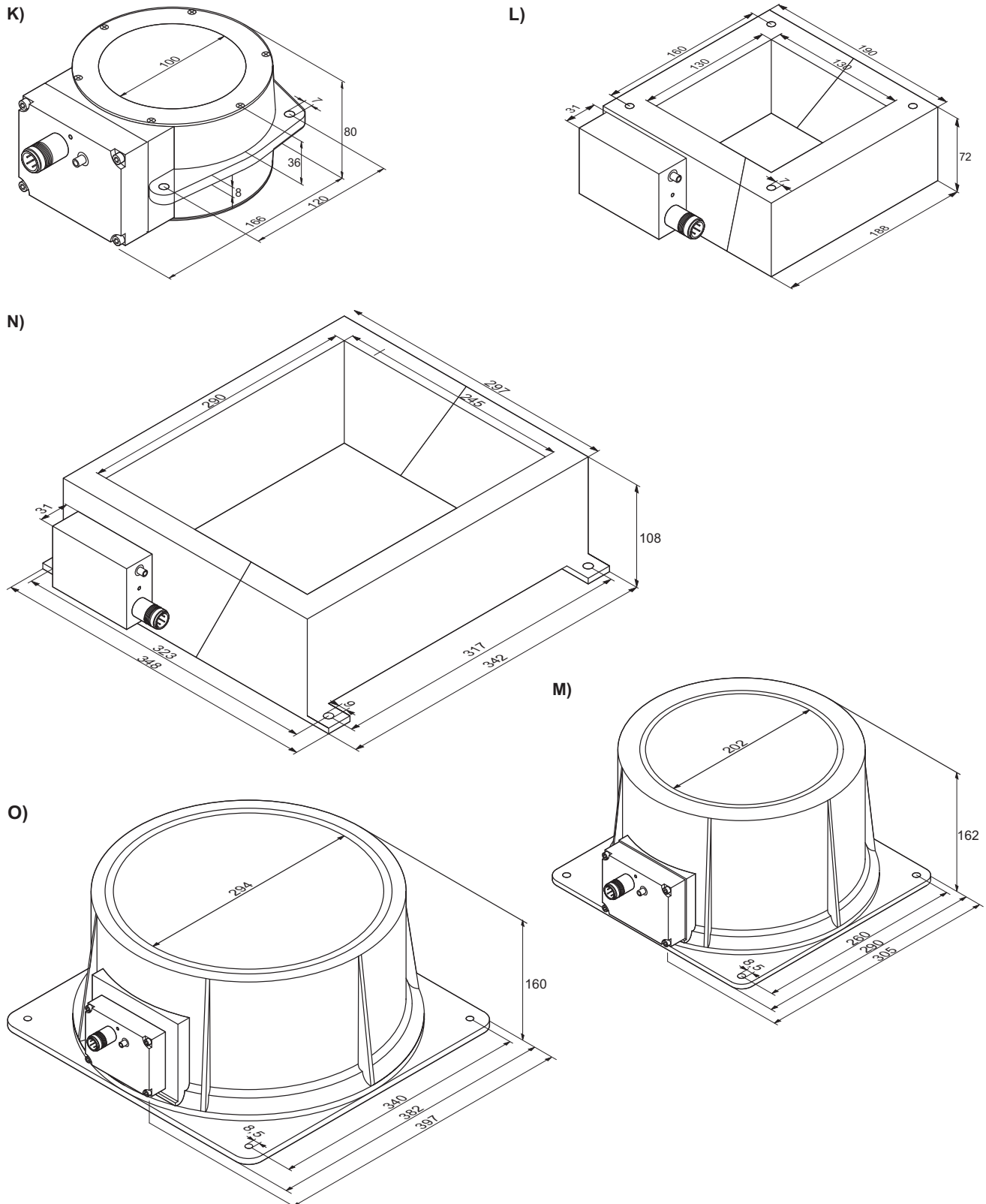


all data in mm



HIGH SENSITIVITY (DYNAMIC PRINCIPLE)

Dimensions



all data in mm



ANALOG

General data

Mounting	non shielded
Output signal	0 ... 10V analog
Operating voltage U_b	15 ... 30V DC
Load Resistor R_L	> 1kOhm
Linearity	$\leq \pm 5\%$
Repeat accuracy	$\leq 5\%$
Off-state current I_0	$\leq 10\text{mA}$
Operating temperature T_a	$-25^\circ\text{C} \dots +70^\circ\text{C}$
Sensitivity over temp. range	$\leq \pm 5\%$
Protection class	IP54
EMV-standard	according to EN 60947-5-2
Switching state	LED
Housing material	Ultramid B3EG3
Connection	connector M12 4-pole

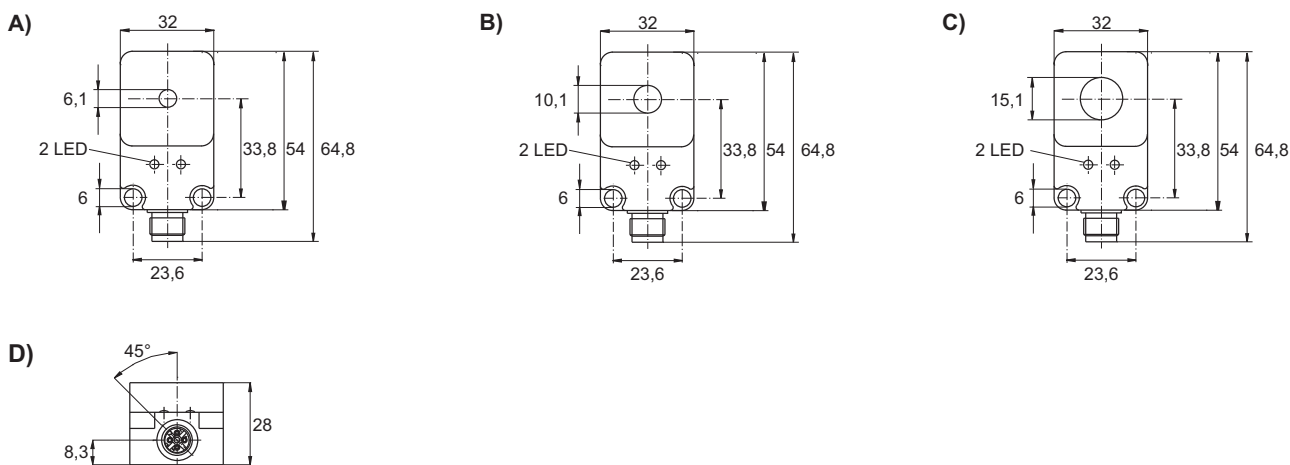


Selection chart

Article number	Designation	Sensitivity	Max. switching frequency f	Drawing
08310000894	KJR-D6KN-ANU-V2	FE-stick D=0,3 - 4,0mm	100Hz	A + D
08310000895	KJR-D10KN-ANU-V2	FE-stick D=0,3 - 6,0mm	100Hz	B + D
08310000896	KJR-D15-KN-ANU-V2	FE-stick D=0,5 - 8,0mm	80Hz	C + D
08310000897	KJR-D20KN-ANU-V2	FE-stick D=0,5 - 15,0mm	80Hz	E (next page)
08310000898	KJR-D30KN-ANU-V2	FE-ball D=1,0 - 20,0mm	80Hz	F (next page)

Control unit and accessories on pages 15 and 16.

Dimensions

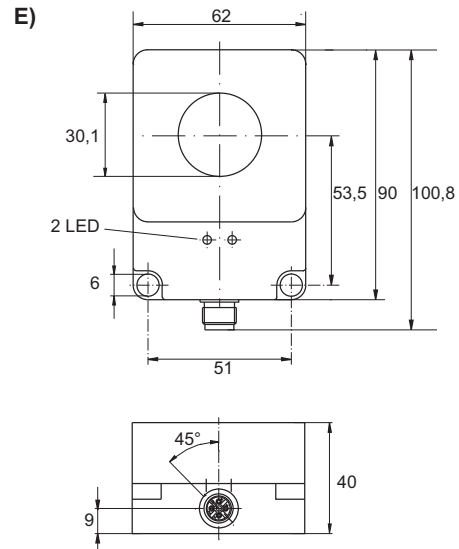
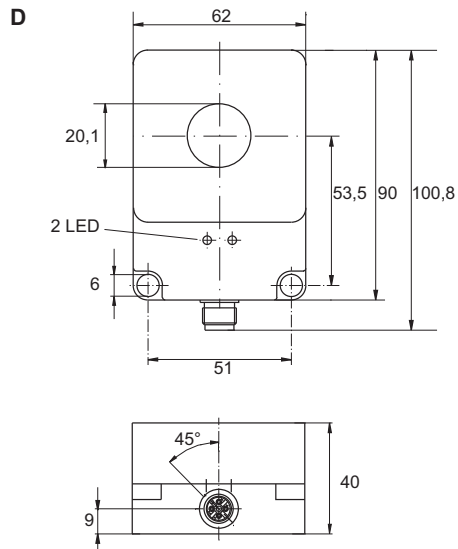


all data in mm



ANALOG

Dimensions



all data in mm



CONTROL UNIT FOR RING SENSORS

Functional description

This control unit can be operated with all sensors from the KJR series. The device serves for evaluating the signals of the sensor and at the same time provides the operating voltage for the sensor. It has been rated especially for mounting on a 35mm top hat rail. The control unit can be operated with all switching sensors with 24V operating voltage.

If the connected sensor excites a signal, it will be collected and lengthened on the adjusted period by the control unit. When during that time another signal is excited, it will be lengthened on the adjusted period again. After that the signal is output via a relay and a transistor output. The active switching state is indicated by an LED. The device can be operated with 24V direct current or alternatively with line voltage. All outputs provide short circuit protection as well as overload protection. All voltage inputs are protected against reverse polarity.

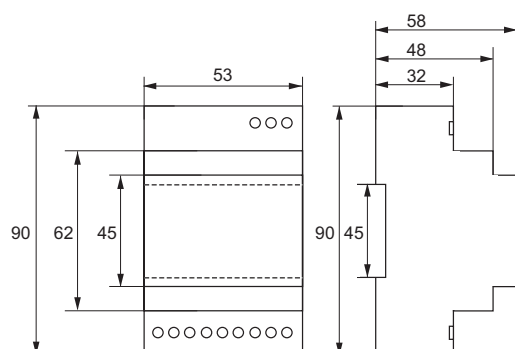


Technical data

	Control unit for ring sensors 230V AC / 24V DC	Control unit for ring sensors 230V AC / 24V DC
Article number	08349005011	08349005013
Supply voltage	230V DC, 50/60Hz or 24V DC	115V, 50/60Hz or 24V DC
Sensor supply	24V DC, max. 80mA*	
Transistor output	1 x NPN, 1 x PNP, 25mA open collector*	
Relay output	1 potential-free changer, max. 250 V AC, 5A	
Switching time per pulse	1 ... 10 / 1 ... 60s (adjustable)	
Operating temperature	-10°C ... +50°C	
Storage temperature	-10°C ... +60°C	
Protection class	IP20	
Housing material	Polycarbonat (UL 94V-0)	

* Overload and short circuit protected.

Dimensions, operation



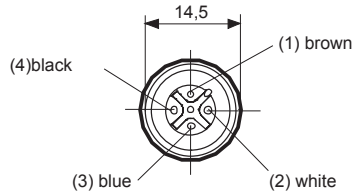
The period for a switching pulse can be adjusted via a potentiometer. The user chooses among two time domains. The selection of the time domain is realised via a rotary coding switch. Via this switch the user also defines if the relay shall be activated or if the connected sensor is NPN or PNP switching.

all data in mm

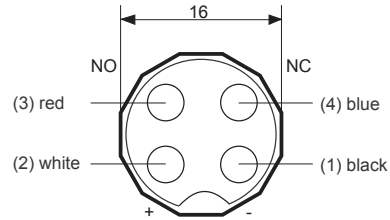


ACCESSORIES

Connectors



Connector M12, 4 pole



SD4K (Euchner)

The sensors in this catalogue are mostly listed in design with connector M12, 4-pole.
Optionally the sensors are also available with connector SD4K (Euchner) for the same price.

Terminating cable

	2m connecting cable	5m connecting cable
Article number M12 4-pole	4450512531	44505125312
Article number SD4K (Euchner)	4455120200	44505120202



M12 4-pole



SD4K (Euchner)

all data in mm



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NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆		┆	┆	┆	┆		┆	┆	┆	┆	┆	
1	2		3	4	5	6	7		8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metal face
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Type of connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison 7/8" UNF
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Tread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



SQUARE Q5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	brass, nickel-plated
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

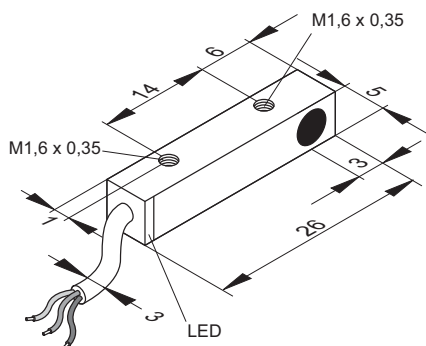


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08313550110	SJ1-Q5MB26-DPS	PNP
08313550120	SJ1-Q5MB26-DPÖ	PNP
08313550130	SJ1-Q5MB26-DNS	NPN
08313550140	SJ1-Q5MB26-DNÖ	NPN

Dimensions



all data in mm



SQUARE Q8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$ (KJ3... $\leq 20\%$)
Voltage drop U_d	$\leq 2,4V^*$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$ (KJ3... $\leq 20mA$)
Residual current I_r	$\leq 10\mu A$ (KJ3... $\leq 100\mu A$)
Max. switching frequency f	1000Hz
Hysteresis H	$\leq 15\%$ (KJ3... $\leq 10\%$)
Repeatability R	$\leq 5\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass nickel-plated, aluminium
Front cap	brass: PCP aluminium: polyamide 6.6



Selection chart brass

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317611000	KJ1,5-Q8MB40-DPS	PNP	1,5	2m cable PVC 3 x 0,14mm ²	A
08317611064	KJ1,5-Q8MB60-DPS-V1	PNP	1,5	connector M8 3-pole	B
08317611100	KJ1,5-Q8MB40-DPS-AM	PNP	1,5	2m cable PVC 3 x 0,14mm ²	C
08317611164	KJ1,5-Q8MB60-DPS-V1-AM	PNP	1,5	connector M8 3-pole	D
08317612000	KJ3-Q8MB40-DPS	PNP	3	2m cable PVC 3 x 0,14mm ²	A
08317612064	KJ3-Q8MB60-DPS-V1	PNP	3	connector M8 3-pole	E

Design NPN and other cable lengths as requested.

Selection chart aluminium

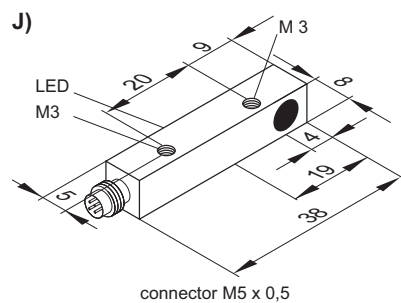
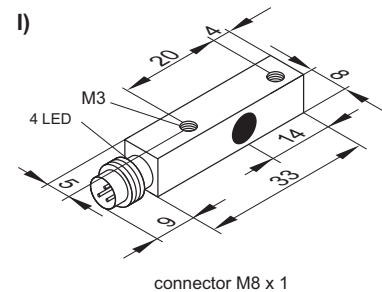
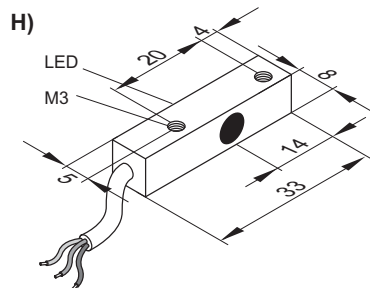
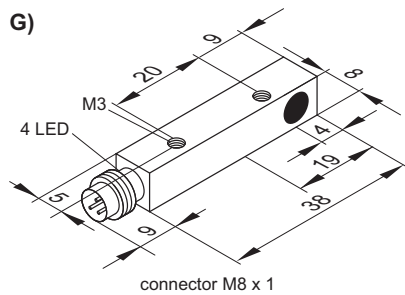
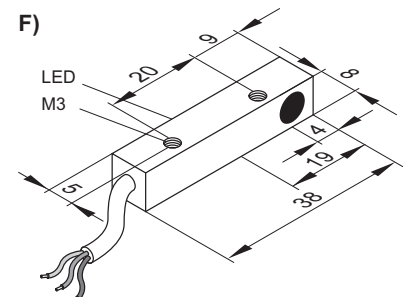
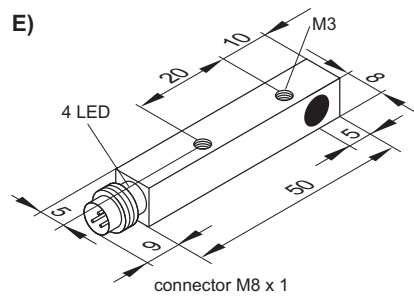
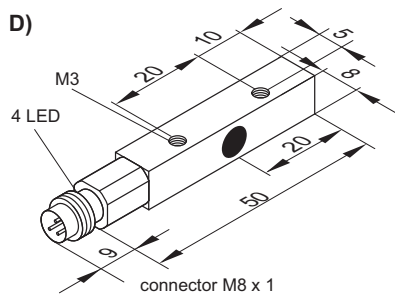
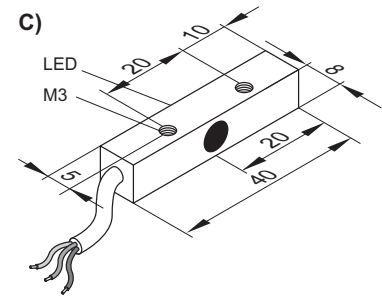
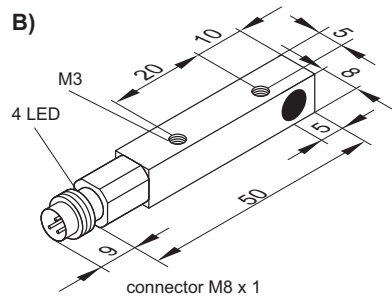
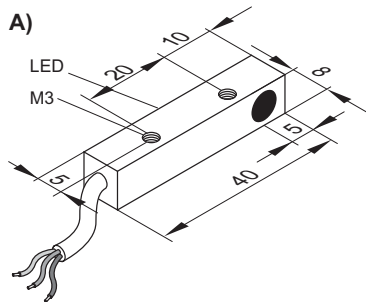
Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000475	KJ2-Q8AB-DPS	PNP	2	2m cable PVC 3 x 0,14mm ²	F
08310020475	KJ2-Q8AB-DPÖ	PNP	2	2m cable PVC 3 x 0,14mm ²	F
08310000509	KJ2-Q8AB-DPS-V1	PNP	2	connector M8 3-pole	G
0831xxxxxxx	KJ2-Q8AB-DPÖ-V1	PNP	2	connector M8 3-pole	G
08310000440	KJ2-Q8AB-DPS-AM	PNP	2	2m cable PVC 3 x 0,14mm ²	H
08310000074	KJ2-Q8AB-DPÖ-AM	PNP	2	2m cable PVC 3 x 0,14mm ²	H
08310000369	KJ2-Q8AB-DPS-V1-AM	PNP	2	connector M8 3-pole	I
0831xxxxxxx	KJ2-Q8AB-DPÖ-V1-AM	PNP	2	connector M8 3-pole	I
08310001035	KJ2-Q8AB-DPS-V3	PNP	2	connector M5 4-pole	J

Design NPN and other cable lengths as requested.



SQUARE Q8

Dimensions



all data in mm



SQUARE Q9,9

General data

Mounting	shielded
Switching distance	2mm
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	$-25^\circ C \dots +75^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium
Front cap	polyamide 6.6
Connection	2m cable PVC 3 x 0,14mm ²

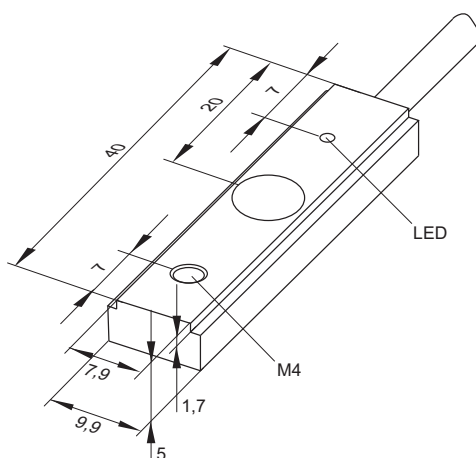


Design NPN and other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08310000208	KJ2-Q9,9AB-DPS	PNP
08310000454	KJ2-Q9,9AB-DPÖ	PNP

Dimensions



all data in mm

pulsotronic Pulsotronic GmbH & Co. KG	Neue Schichtstraße 14b D-09366 Niederdorf	☎ +49 (0) 37296 / 930 - 200 ☎ +49 (0) 37296 / 930 - 280	info@pulsotronic.de www.pulsotronic.de	subject to modifications!
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SQUARE Q12

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_o	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	PBT



Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317613000	KJ2-Q12KB-DPS	shielded	PNP	2	2m cable PVC 3 x 0,34mm ²	A
08317613400	KJ2-Q12KB-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,34mm ²	A
08317613064	KJ2-Q12KB-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317613464	KJ2-Q12KB-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08317613200	KJ4-Q12KN-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	A
08317613600	KJ4-Q12KN-DPÖ	non shielded	PNP	4	2m cable PVC 3 x 0,34mm ²	A
08317613264	KJ4-Q12KN-DPS-V1	non shielded	PNP	4	connector M8 3-pole	B
08317613664	KJ4-Q12KN-DPÖ-V1	non shielded	PNP	4	connector M8 3-pole	B
08310000527	KJ4-Q12KN-DPA	non shielded	PNP	4	2m cable PVC 4 x 0,34mm ²	A
0831xxxxxxx	KJ6-Q12KN-DPS	non shielded	PNP	6	2m cable PVC 4 x 0,34mm ²	A
0831xxxxxxx	KJ6-Q12KN-DPS-V1	non shielded	PNP	6	connector M8 3-pole	B

Design NPN and other cable lengths as requested.

Dimensions



all data in mm

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SQUARE Q25

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	1000Hz (KJ8... 800Hz)
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polyamide 6.6, aluminium



Selection chart polyamide

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000772	KJ5-Q25KB-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ5-Q25KB-DPÖ	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
08310000203	KJ5-Q25KB-DPS-V1	shielded	PNP	5	connector M8 3-pole	B
08310000472	KJ5-Q25KB-DPÖ-V1	shielded	PNP	5	connector M8 3-pole	B
08310000901	KJ5-Q25KB-DPA	shielded	PNP	5	2m cable PVC 4 x 0,25mm ²	A
08310000056	KJ8-Q25KN-DPS	non shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ8-Q25KN-DPÖ	non shielded	PNP	8	2m cable PVC 3 x 0,34mm ²	A
08310000508	KJ8-Q25KN-DPS-V1	non shielded	PNP	8	connector M8 3-pole	B
0831xxxxxxx	KJ8-Q25KN-DPÖ-V1	non shielded	PNP	8	connector M8 3-pole	B
08310001079	KJ8-Q25KN-DPA	non shielded	PNP	8	2m cable PVC 4 x 0,25mm ²	A

Design NPN and other cable lengths as requested.

Selection chart aluminium

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000229	KJ5-Q25AB-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A
0831xxxxxxx	KJ5-Q25AB-DPÖ	shielded	PNP	5	2m cable PVC 3 x 0,34mm ²	A

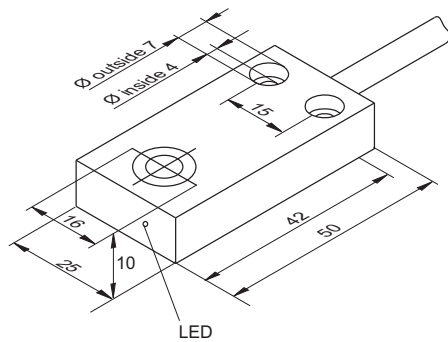
Design NPN and other cable lengths as requested.



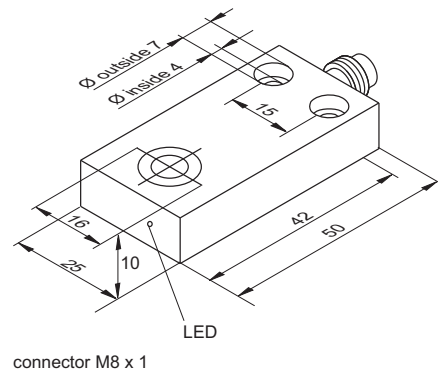
SQUARE Q25

Dimensions

A)



B)



all data in mm



SQUARE Q28

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	200mA
Off-state current I_0	$\leq 13mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	1000Hz (KJ4... 800Hz)
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polyamide 6.6

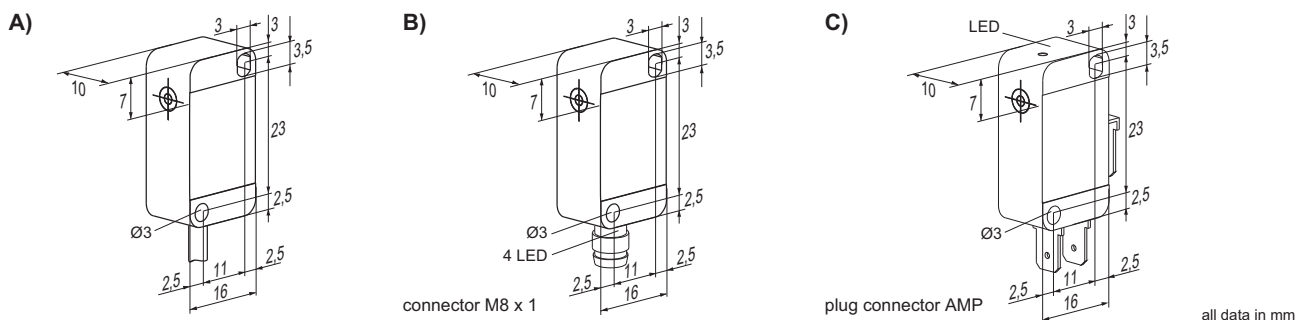


Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08310000042	KJ2-Q28KB-DPS	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08310000437	KJ2-Q28KB-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,14mm ²	A
08310000608	KJ2-Q28KB-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08310000632	KJ2-Q28KB-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08310006008	KJ2-Q28KB-DPS-AMP	shielded	PNP	2	3 x plug connector AMP	C
08310001094	KJ2-Q28KB-DNS-AMP	shielded	NPN	2	3 x plug connector AMP	C
08310000610	KJ4-Q28KN-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,14mm ²	A
08310002041	KJ4-Q28KN-DPÖ	non shielded	PNP	4	2m cable PVC 3 x 0,14mm ²	A
08310000609	KJ4-Q28KN-DPS-V1	non shielded	PNP	4	connector M8 3-pole	B
08310020184	KJ4-Q28KN-DPÖ-V1	non shielded	PNP	4	connector M8 3-pole	B
08310000100	KJ6-Q28KN-DPS-V1	non shielded	PNP	6	connector M8 3-pole	B
08310001247	KJ6-Q28KN-DPÖ-V1	non shielded	PNP	6	connector M8 3-pole	B

Design NPN and other cable lengths as requested.

Dimensions





SQUARE Q40

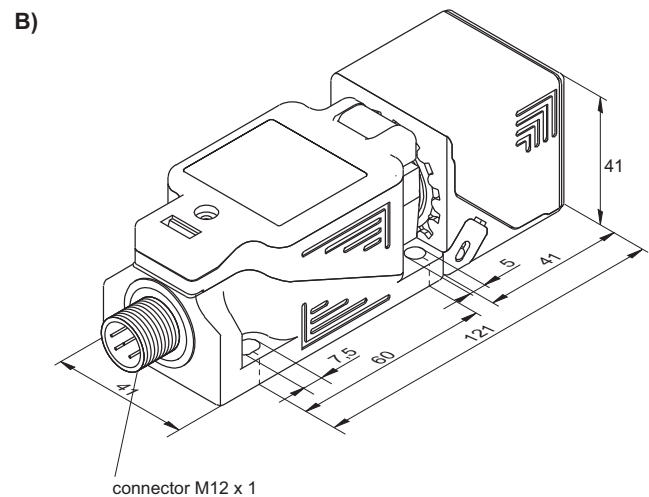
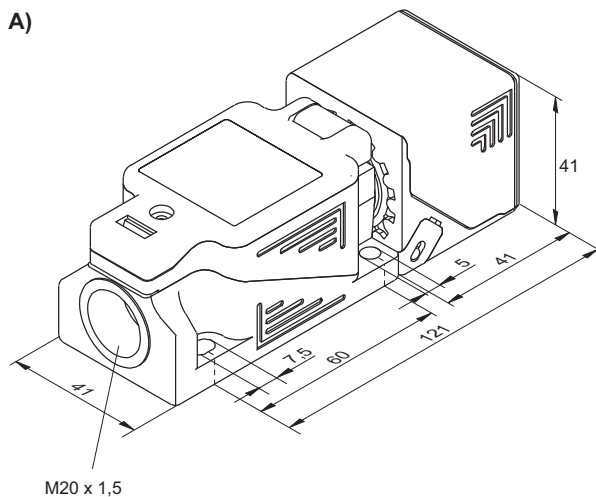
General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	see selection chart
Off-state current I_0	see selection chart
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	150Hz (KJ40... 70Hz)
Hysteresis H	$\leq 20\%$
Repeatability R	$\leq 5\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67 / see enclosed label*
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	trogamit T, polyamide 6.6



* When fixing the cover with the enclosed screw and sealed cable gland IP67 (without using the enclosed screw IP65)

Dimensions



all data in mm
Selection chart on the next page



SQUARE Q40

Selection chart trogamit T

Article number	Designation	Former order number	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317633000	KJ15-Q40KB-DPU	9863-3000	shielded	PNP	15	clamps 1,5mm ²	A
08317633300	KJ15-Q40KB-DNU	9863-3300	shielded	NPN	15	clamps 1,5mm ²	A
08317633065	KJ15-Q40KB-DPU-V2	9863-3065	shielded	PNP	15	connector M12 4-pole	B
08317633365	KJ15-Q40KB-DNU-V2	9863-3365	shielded	NPN	15	connector M12 4-pole	B
08317633100	KJ25-Q40KT-DPU	9863-3100	quasi-shielded	PNP	25	clamps 1,5mm ²	A
08317633400	KJ25-Q40KT-DNU	9863-3400	quasi-shielded	NPN	25	clamps 1,5mm ²	A
08317633165	KJ25-Q40KT-DPU-V2	9863-3165	quasi-shielded	PNP	25	connector M12 4-pole	B
08317633465	KJ25-Q40KT-DNU-V2	9863-3465	quasi-shielded	NPN	25	connector M12 4-pole	B
08317633200	KJ40-Q40KN-DPU	9863-3200	non shielded	PNP	40	clamps 1,5mm ²	A
08317633500	KJ40-Q40KN-DNU	9863-3500	non shielded	NPN	40	clamps 1,5mm ²	A
08317633265	KJ40-Q40KN-DPU-V2	9863-3265	non shielded	PNP	40	connector M12 4-pole	B
08317633565	KJ40-Q40KN-DNU-V2	9863-3565	non shielded	NPN	40	connector M12 4-pole	B

Max. load current 400mA

Off-state current ≤ 34mA

Selection chart polyamide 6.6

Article number	Designation	Former order number	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317832000	KJ20-Q40KB-DPU	9883-2000	shielded	PNP	20	clamps 2,5mm ²	A
08317832300	KJ20-Q40KB-DNU	9883-2300	shielded	NPN	20	clamps 2,5mm ²	A
08317832065	KJ20-Q40KB-DPU-V2	9883-2065	shielded	PNP	20	connector M12 4-pole	B
08317832365	KJ20-Q40KB-DNU-V2	9883-2365	shielded	NPN	20	connector M12 4-pole	B
08317832200	KJ40-Q40KN-DPU	9883-2200	non shielded	PNP	40	clamps 2,5mm ²	A
08317832500	KJ40-Q40KN-DNU	9883-2500	non shielded	NPN	40	clamps 2,5mm ²	A
08317832265	KJ40-Q40KN-DPU-V2	9883-2265	non shielded	PNP	40	connector M12 4-pole	B
08317832565	KJ40-Q40KN-DNU-V2	9883-2565	non shielded	NPN	40	connector M12 4-pole	B

Max. load current 120mA

Off-state current ≤ 10mA



SQUARE Q50

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	400mA
Off-state current I_0	$\leq 18mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	300Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium
Front cap	droidur



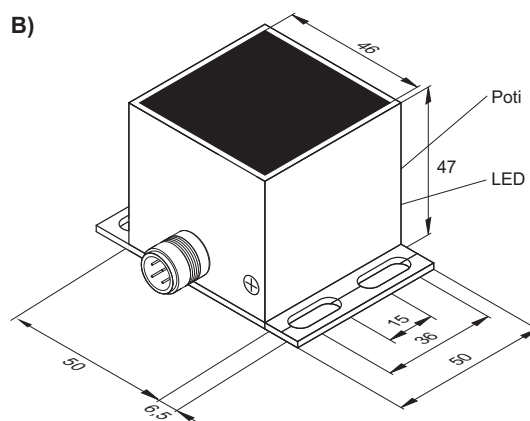
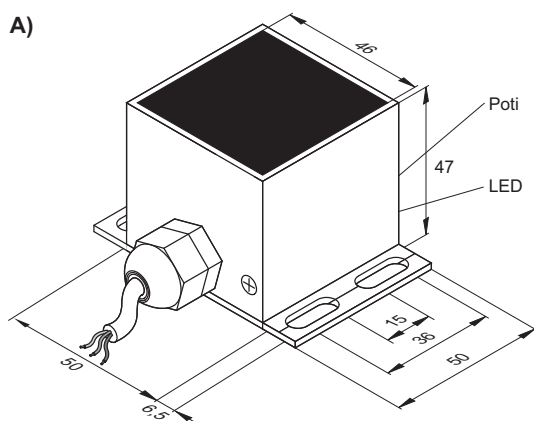
Switching distance adjustable via potentiometer.

Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317070900	KJ40-Q50AB-DPS	shielded	PNP	40	2m cable PVC 3 x 0,34mm ²	A
08317070100	KJ40-Q50AB-DNS	shielded	NPN	40	2m cable PVC 3 x 0,34mm ²	A
08317070965	KJ40-Q50AB-DPS-V2	shielded	PNP	40	connector M12 4-pole	B
08317070165	KJ40-Q50AB-DNS-V2	shielded	NPN	40	connector M12 4-pole	B

Other cable lengths as requested.

Dimensions



connector M12 x 1

all data in mm

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SQUARE Q80

General data

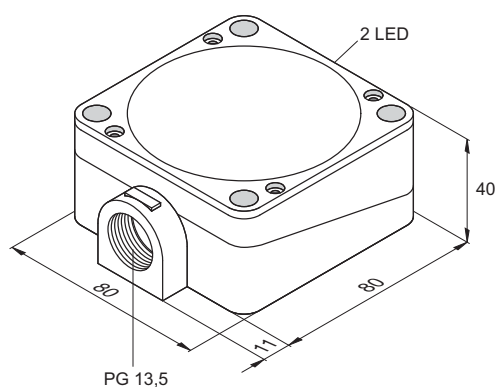
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 3,0V$ (KJ50... $\leq 2,4V$)
Max. load current	200mA
Off-state current I_o	$\leq 22mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	100Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection
08317651100	KJ40-Q80KB-DPA	shielded	PNP	40	clamping space
08317651000	KJ50-Q80KN-DPA	non shielded	PNP	50	clamping space

Dimensions



all data in mm



SQUARE Q100

General data

Mounting	non shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current	400mA
Off-state current I_0	$\leq 12mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	300Hz*
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium



* For parallel mounting these sensors are available in 5 different frequencies.

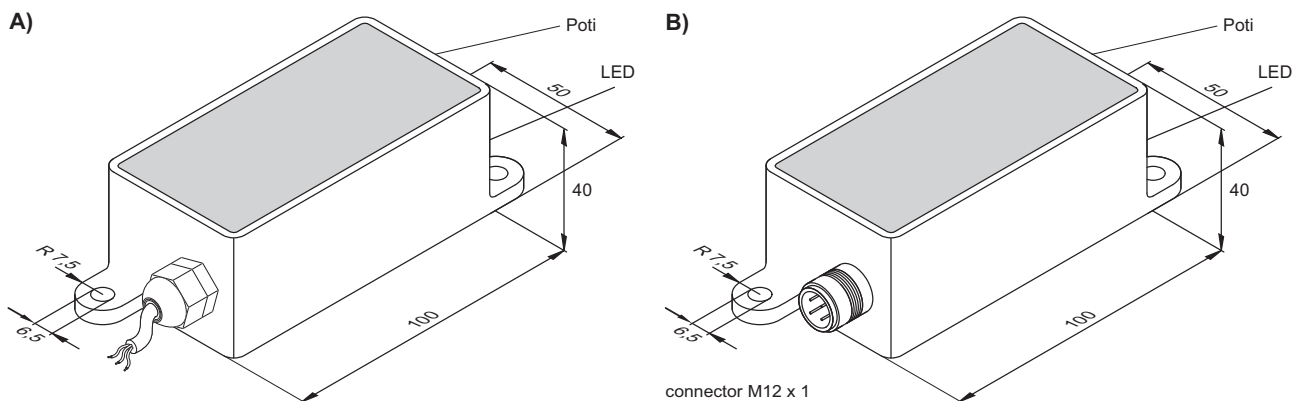
Switching distance adjustable via potentiometer.

Selection chart

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing
08316090100	KJ70-Q100AN-DPS-F1	PNP	70	2m cable PVC 3 x 0,34mm ²	A
08316090300	KJ70-Q100AN-DNS-F1	NPN	70	2m cable PVC 3 x 0,34mm ²	A
08316090165	KJ70-Q100AN-DPS-V2-F1	PNP	70	connector M12 4-pole	B
08316090365	KJ70-Q100AN-DNS-V2-F1	NPN	70	connector M12 4-pole	B

Other cable lengths as requested.

Dimensions



all data in mm



MICRO SQUARE Q6

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1,0V$
Max. load current	100mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	400Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 0,04mm$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



Mounting clamp included in delivery.

Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08313661210	SJ1,2-Q6KN19-DPS	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm ²	A
08313661220	SJ1,2-Q6KN19-DPÖ	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm ²	A
08313661230	SJ1,2-Q6KN19-DNS	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm ²	A
08313661240	SJ1,2-Q6KN19-DNÖ	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm ²	A
08313661219	SJ1,2W-Q6KN19-DPS	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm ²	B
08313661229	SJ1,2W-Q6KN19-DPÖ	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm ²	B
0831366xxxx	SJ1,2W-Q6KN19-DNS	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm ²	B
0831366xxxx	SJ1,2W-Q6KN19-DNÖ	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm ²	B

Other cable lengths as requested.

Dimensions



all data in mm

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MICRO SQUARE Q8

General data

Mounting	non shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1,0V$
Max. load current	100mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	500Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 0,04 mm$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate

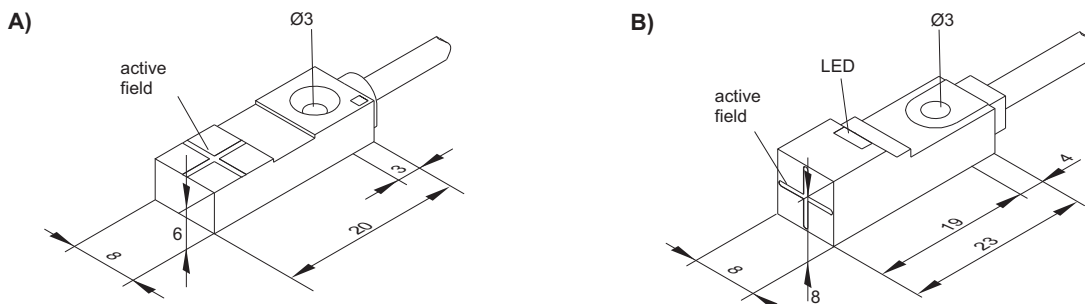


Selection chart

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing
08313881512	SJ1,5-Q8KN20-DPS	PNP	1,5	2m cable PVC 3 x 0,15mm ²	A
08313881522	SJ1,5-Q8KN20-DPÖ	PNP	1,5	2m cable PVC 3 x 0,15mm ²	A
08313881532	SJ1,5-Q8KN20-DNS	NPN	1,5	2m cable PVC 3 x 0,15mm ²	A
08313881542	SJ1,5-Q8KN20-DNÖ	NPN	1,5	2m cable PVC 3 x 0,15mm ²	A
08313881519	SJ1,5W-Q8KN23-DPS	PNP	1,5	2m cable PVC 3 x 0,15mm ²	B
08313881529	SJ1,5W-Q8KN23-DPÖ	PNP	1,5	2m cable PVC 3 x 0,15mm ²	B
08313881539	SJ1,5W-Q8KN23-DNS	NPN	1,5	2m cable PVC 3 x 0,15mm ²	B
08313881549	SJ1,5W-Q8KN23-DNÖ	NPN	1,5	2m cable PVC 3 x 0,15mm ²	B

Other cable lengths as requested.

Dimensions



all data in mm

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MICRO SQUARE Q10/Q12

General data

Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1,0V$
Max. load current	100mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	250Hz (version Q12: 500Hz)
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 0,04mm$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate

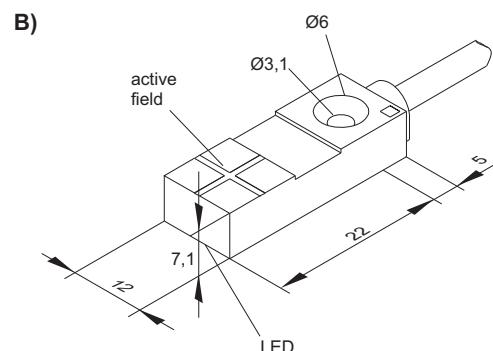
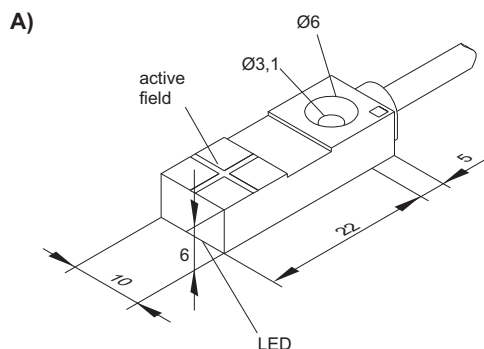


Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08313021010	SJ2-Q10KN27-DPS	non shielded	PNP	2	2m cable PVC 3 x 0,15mm ²	A
0831xxxxxxx	SJ2-Q10KN27-DPÖ	non shielded	PNP	2	2m cable PVC 3 x 0,15mm ²	A
0831xxxxxxx	SJ2-Q10KN27-DNS	non shielded	NPN	2	2m cable PVC 3 x 0,15mm ²	A
0831xxxxxxx	SJ2-Q10KN27-DNÖ	non shielded	NPN	2	2m cable PVC 3 x 0,15mm ²	A
0831xxxxxxx	SJ2-Q12KN27-DPS	non shielded	PNP	2	2m cable PVC 3 x 0,15mm ²	B
0831xxxxxxx	SJ2-Q12KN27-DPÖ	non shielded	PNP	2	2m cable PVC 3 x 0,15mm ²	B
0831xxxxxxx	SJ2-Q12KN27-DNS	non shielded	NPN	2	2m cable PVC 3 x 0,15mm ²	B
0831xxxxxxx	SJ2-Q12KN27-DNÖ	non shielded	NPN	2	2m cable PVC 3 x 0,15mm ²	B

Other cable lengths as requested.

Dimensions



all data in mm

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MICRO SQUARE Q15

General data

Mounting	non shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1,0V$
Max. load current	100mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	250Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 0,04 \text{ mm}$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



Selection chart

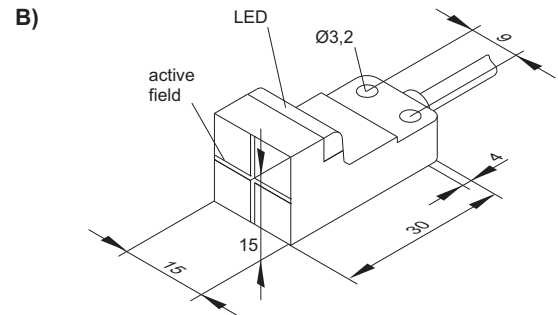
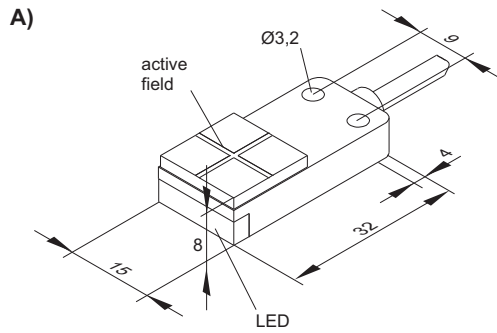
Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08313150410	SJ4-Q15KN32-DPS	PNP	4	2m cable PVC 3 x 0,15mm ²	A
08313150420	SJ4-Q15KN32-DPÖ	PNP	4	2m cable PVC 3 x 0,15mm ²	A
08313150430	SJ4-Q15KN32-DNS	NPN	4	2m cable PVC 3 x 0,15mm ²	A
08313150440	SJ4-Q15KN32-DNÖ	NPN	4	2m cable PVC 3 x 0,15mm ²	A
08313150419	SJ4W-Q15KN30-DPS	PNP	4	2m cable PVC 3 x 0,15mm ²	B
08313150429	SJ4W-Q15KN30-DPÖ	PNP	4	2m cable PVC 3 x 0,15mm ²	B
08313150439	SJ4W-Q15KN30-DNS	NPN	4	2m cable PVC 3 x 0,15mm ²	B
08313150449	SJ4W-Q15KN30-DNÖ	NPN	4	2m cable PVC 3 x 0,15mm ²	B
08313156410	SJ6,4-Q15KN32-DPS	PNP	6,4	2m cable PVC 3 x 0,15mm ²	A
08313156420	SJ6,4-Q15KN32-DPÖ	PNP	6,4	2m cable PVC 3 x 0,15mm ²	A
08313156430	SJ6,4-Q15KN32-DNS	NPN	6,4	2m cable PVC 3 x 0,15mm ²	A
08313156440	SJ6,4-Q15KN32-DNÖ	NPN	6,4	2m cable PVC 3 x 0,15mm ²	A
08313156419	SJ6,4W-Q15KN30-DPS	PNP	6,4	2m cable PVC 3 x 0,15mm ²	B
08313156429	SJ6,4W-Q15KN30-DPÖ	PNP	6,4	2m cable PVC 3 x 0,15mm ²	B
08313156439	SJ6,4W-Q15KN30-DNS	NPN	6,4	2m cable PVC 3 x 0,15mm ²	B
08313156449	SJ6,4W-Q15KN30-DNÖ	NPN	6,4	2m cable PVC 3 x 0,15mm ²	B

Other cable lengths as requested.



MICRO SQUARE Q15

Dimensions



all data in mm



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Designation code

How to read sensor designations

115

Circuit diagrams

Connection according to EN 60947-5-2

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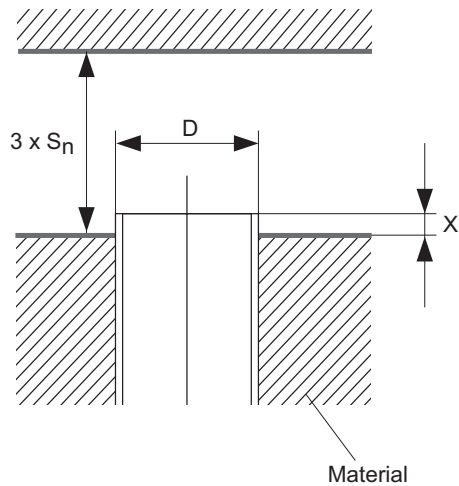
Sensors

Cylinder G6,5	117
Cylinder M8	119
Square Q8	121
Cylinder M12	123
Square Q12	125
Cylinder M18	127
Cylinder G20	129
Cylinder M30	131
Cylinder G34	133



MOUNTING

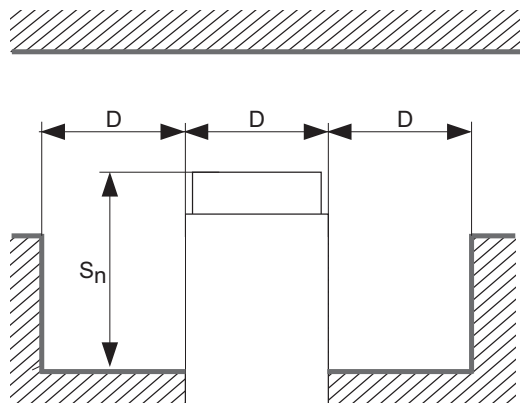
Quasi-flush mounting



The sensors in this catalogue must not be mounted flush into conductive materials, but have to protrude by X. Flush mounting in non-conductive materials is allowed.

Steel	$X = 0,2D$
Other metals	$X = 0,1D$
Other material	$X = 0$

Non-flush mounting



S_n = Switching distance
 D = Diameter of the sensors



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆
1	2	3	4	5	6	7	8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



CYLINDER G6,5

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated
Front cap	POM



The drawings of these sensors are shown on the following page.

Selection chart

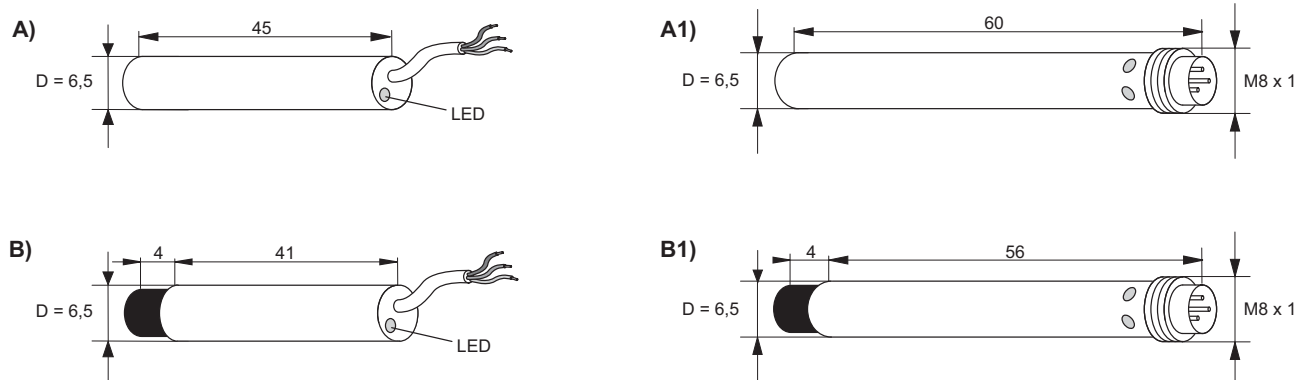
Article number	Designation switching distance 3mm	Mounting	Output signal	Connection	Drawing (next page)
08313650317	SJ3-G6,5MB45-DPS	shielded	PNP	2m cable PVC 3 x 0,15mm ²	A
08313650327	SJ3-G6,5MB45-DPÖ	shielded	PNP	2m cable PVC 3 x 0,15mm ²	A
08313650337	SJ3-G6,5MB45-DNS	shielded	NPN	2m cable PVC 3 x 0,15mm ²	A
08313650347	SJ3-G6,5MB45-DNÖ	shielded	NPN	2m cable PVC 3 x 0,15mm ²	A
08313036511	SJ3-G6,5MB60-DPS-V1	shielded	PNP	connector M8 3-pole	A1
08313036521	SJ3-G6,5MB60-DPÖ-V1	shielded	PNP	connector M8 3-pole	A1
08313036531	SJ3-G6,5MB60-DNS-V1	shielded	NPN	connector M8 3-pole	A1
08313036541	SJ3-G6,5MB60-DNÖ-V1	shielded	NPN	connector M8 3-pole	A1
	Designation switching distance 6mm				
08313650617	SJ6-G6,5MN45-DPS	non shielded	PNP	2m cable PVC 3 x 0,15mm ²	B
08313650627	SJ6-G6,5MN45-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,15mm ²	B
08313650637	SJ6-G6,5MN45-DNS	non shielded	NPN	2m cable PVC 3 x 0,15mm ²	B
08313650647	SJ6-G6,5MN45-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,15mm ²	B
08313066511	SJ6-G6,5MN60-DPS-V1	non shielded	PNP	connector M8 3-pole	B1
08313066521	SJ6-G6,5MN60-DPÖ-V1	non shielded	PNP	connector M8 3-pole	B1
08313066531	SJ6-G6,5MN60-DNS-V1	non shielded	NPN	connector M8 3-pole	B1
08313066541	SJ6-G6,5MN60-DNÖ-V1	non shielded	NPN	connector M8 3-pole	B1

Other cable lengths as requested.



CYLINDER G6,5

Dimensions



all data in mm



CYLINDER M8

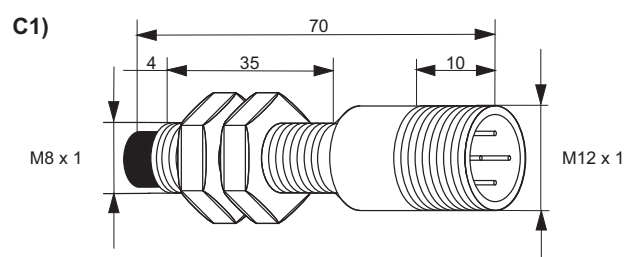
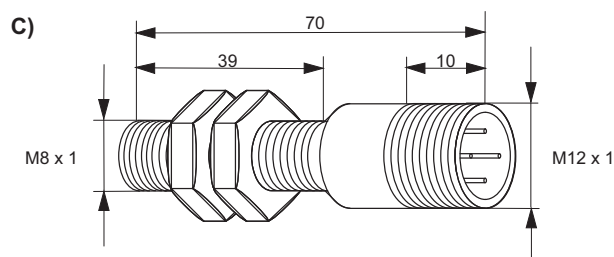
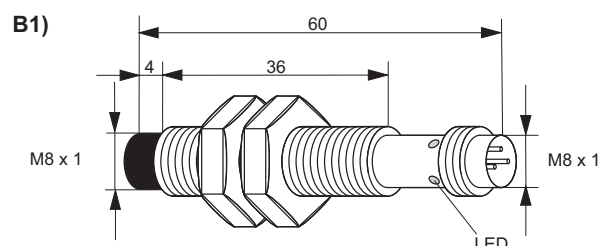
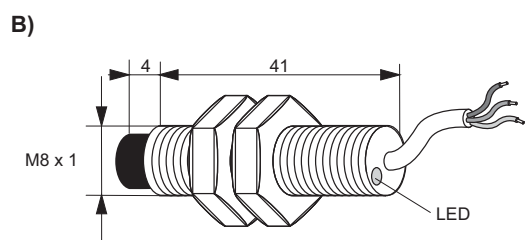
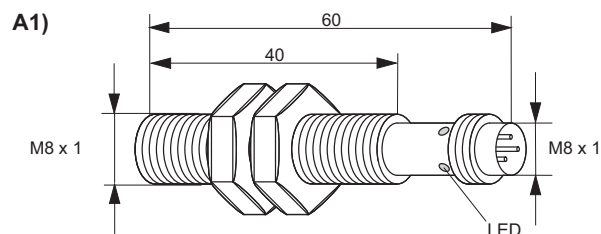
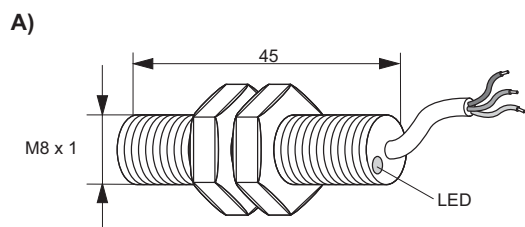
General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated (except for KJ3-M8EB... stainless steel)
Front cap	KJ3... PA 6.6 KJ6... POM SJ6... POM



The selection chart of these sensors is shown on the following page.

Dimensions



all data in mm



CYLINDER M8

Selection chart

Article number	Designation switching distance 3mm	Mounting	Output signal	Connection	Drawing (front page)
08317815000	KJ3-M8MB45-DPS	shielded	PNP	2m cable PVC 3 x 0,15mm ²	A
08317815400	KJ3-M8MB45-DPÖ	shielded	PNP	2m cable PVC 3 x 0,15mm ²	A
08317815100	KJ3-M8MB45-DNS	shielded	NPN	2m cable PVC 3 x 0,15mm ²	A
08317815500	KJ3-M8MB45-DNÖ	shielded	NPN	2m cable PVC 3 x 0,15mm ²	A
08317815064	KJ3-M8EB60-DPS-V1	shielded	PNP	connector M8 3-pole	A1
08317815464	KJ3-M8EB60-DPÖ-V1	shielded	PNP	connector M8 3-pole	A1
08310001155	KJ3-M8EB60-DNS-V1	shielded	NPN	connector M8 3-pole	A1
08317815564	KJ3-M8EB60-DNÖ-V1	shielded	NPN	connector M8 3-pole	A1
08317815065	KJ3-M8MB70-DPS-V2	shielded	PNP	connector M12 4-pole	C
08313030822	SJ3-M8MB70-DPÖ-V2	shielded	PNP	connector M12 4-pole	C
08313030832	SJ3-M8MB70-DNS-V2	shielded	NPN	connector M12 4-pole	C
08313030842	SJ3-M8MB70-DNÖ-V2	shielded	NPN	connector M12 4-pole	C

	Designation switching distance 6mm				
08317815200	KJ6-M8MN45-DPS	non shielded	PNP	2m cable PVC 3 x 0,15mm ²	B
08317815600	SJ6-M8MN45-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,15mm ²	B
08317815300	KJ6-M8MN45-DNS	non shielded	NPN	2m cable PVC 3 x 0,15mm ²	B
08313080647	SJ6-M8MN45-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,15mm ²	B
08317815264	KJ6-M8MN60-DPS-V1	non shielded	PNP	connector M8 3-pole	B1
08313060821	SJ6-M8MN60-DPÖ-V1	non shielded	PNP	connector M8 3-pole	B1
08313060831	SJ6-M8MN60-DNS-V1	non shielded	NPN	connector M8 3-pole	B1
08313060841	SJ6-M8MN60-DNÖ-V1	non shielded	NPN	connector M8 3-pole	B1
08317815265	KJ6-M8MN70-DPS-V2	non shielded	PNP	connector M12 4-pole	D
08313060822	SJ6-M8MN70-DPÖ-V2	non shielded	PNP	connector M12 4-pole	D
08317815365	KJ6-M8MN70-DNS-V2	non shielded	NPN	connector M12 4-pole	D
08313060842	SJ6-M8MN70-DNÖ-V2	non shielded	NPN	connector M12 4-pole	D

Other cable lengths as requested.



SQUARE Q8

General data

Mounting	shielded
Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Switching distance	3mm
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated
Front cap	POM



The drawings of these sensors are shown on the following page.

Selection chart

Article number	Designation	Output signal	Connection	Drawing (next page)
08317612000	KJ3-Q8MB40-DPS	PNP	2m cable PVC 3 x 0,15mm ²	A
08313880327	SJ3-Q8MB40-DPÖ	PNP	2m cable PVC 3 x 0,15mm ²	A
08317612100	KJ3-Q8MB40-DNS	NPN	2m cable PVC 3 x 0,15mm ²	A
08313880342	SJ3-Q8MB40-DNÖ	NPN	2m cable PVC 3 x 0,15mm ²	A
08317612064	KJ3-Q8MB60-DPS-V1	PNP	connector M8 3-pole	A1
08313880321	SJ3-Q8MB60-DPÖ-V1	PNP	connector M8 3-pole	A1
08317612164	KJ3-Q8MB60-DNS-V1	NPN	connector M8 3-pole	A1
08313880341	SJ3-Q8MB60-DNÖ-V1	NPN	connector M8 3-pole	A1
08313880318	SJ3-Q8MB40-DPS-AM	PNP	2m cable PVC 3 x 0,15mm ²	B
08313880328	SJ3-Q8MB40-DPÖ-AM	PNP	2m cable PVC 3 x 0,15mm ²	B
08313880338	SJ3-Q8MB40-DNS-AM	NPN	2m cable PVC 3 x 0,15mm ²	B
08313880348	SJ3-Q8MB40-DNÖ-AM	NPN	2m cable PVC 3 x 0,15mm ²	B
08313880317	SJ3-Q8MB60-DPS-V1-AM	PNP	connector M8 3-pole	B1
08313038827	SJ3-Q8MB60-DPÖ-V1-AM	PNP	connector M8 3-pole	B1
08313880337	SJ3-Q8MB60-DNS-V1-AM	NPN	connector M8 3-pole	B1
08313880347	SJ3-Q8MB60-DNÖ-V1-AM	NPN	connector M8 3-pole	B1

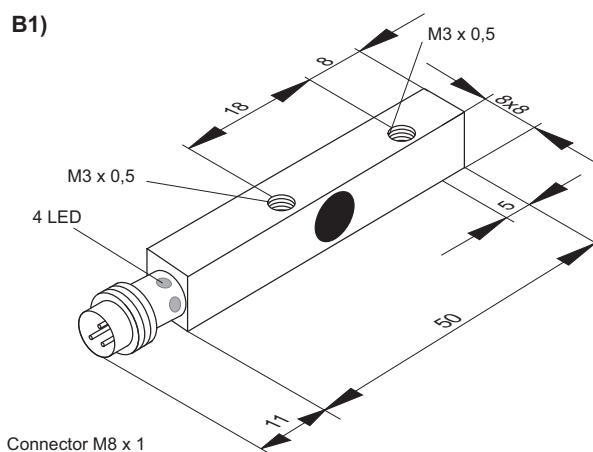
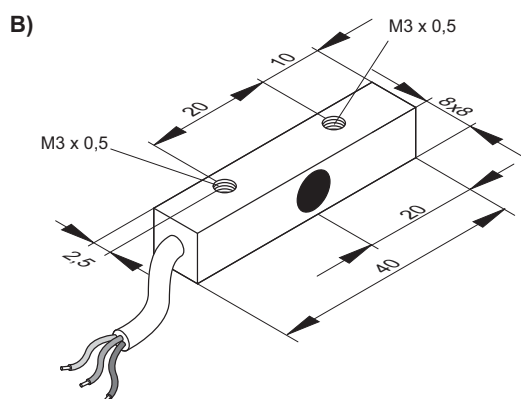
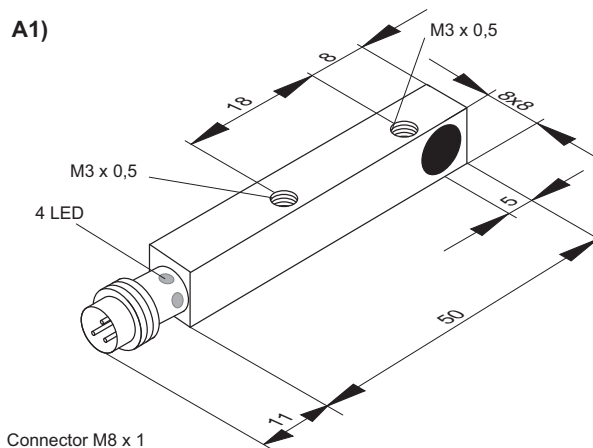
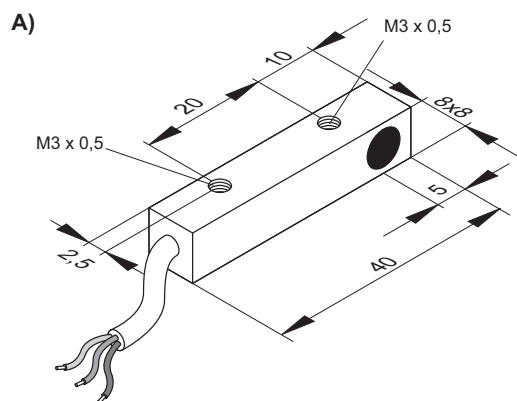
Other cable lengths as requested.

AM - active field in center.



SQUARE Q8

Dimensions



all data in mm



CYLINDER M12

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	KJ6... 1000Hz SJ6... 1000Hz KJ10... 500Hz SJ10... 500Hz
Switching distance	3mm
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated
Front cap	KJ6... POM SJ6... POM KJ10... PBT SJ10... PBT



The drawings of these sensors are shown on the following page.

Selection chart

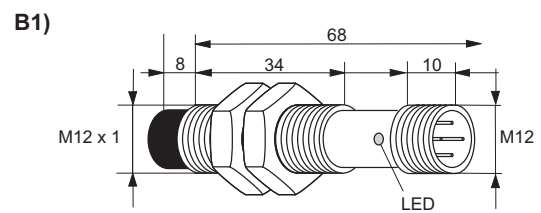
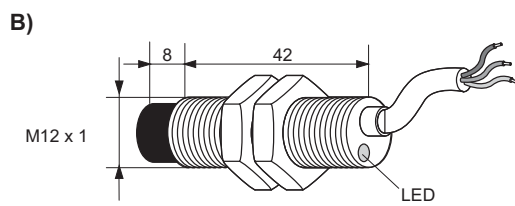
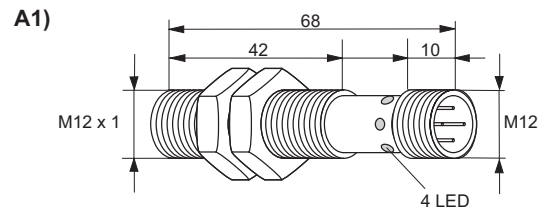
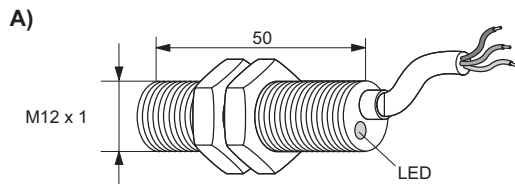
Article number	Designation switching distance 6mm	Mounting	Output signal	Connection	Drawing (next page)
08317825000	KJ6-M12MB50-DPS	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313120627	SJ6-M12MB50-DPÖ	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08317825100	KJ6-M12MB50-DNS	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313120647	SJ6-M12MB50-DNÖ	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08317825065	KJ6-M12MB68-DPS-V2	shielded	PNP	connector M12 4-pole	A1
08313061222	SJ6-M12MB68-DPÖ-V2	shielded	PNP	connector M12 4-pole	A1
08317825165	KJ6-M12MB68-DNS-V2	shielded	NPN	connector M12 4-pole	A1
08317825565	SJ6-M12MB68-DNÖ-V2	shielded	NPN	connector M12 4-pole	A1

	Designation switching distance 10mm				
08317825200	KJ10-M12MN50-DPS	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	B
08313121027	KJ10-M12MN50-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	B
08317825300	KJ10-M12MN50-DNS	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	B
08313121047	KJ10-M12MN50-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	B
08317825265	KJ10-M12MN68-DPS-V2	non shielded	PNP	connector M12 4-pole	B1
08313101222	KJ10-M12MN68-DPÖ-V2	non shielded	PNP	connector M12 4-pole	B1
08313101232	KJ10-M12MN68-DNS-V2	non shielded	NPN	connector M12 4-pole	B1
08313101242	KJ10-M12MN68-DNÖ-V2	non shielded	NPN	connector M12 4-pole	B1



CYLINDER M12

Dimensions



all data in mm



SQUARE Q12

General data

Mounting	shielded
Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	1000Hz
Switching distance	6mm
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switchung state	LED
Housing material	brass, nickel-plated
Front cap	POM



The drawings of these sensors are shown on the following page.

Auswahltable

Article number	Designation	Output signal	Connection	Drawing (next page)
08313620617	SJ6-Q12MB50-DPS	PNP	2m cable PVC 3 x 0,15mm ²	A
08313620627	SJ6-Q12MB50-DPÖ	PNP	2m cable PVC 3 x 0,15mm ²	A
08313620637	SJ6-Q12MB50-DNS	NPN	2m cable PVC 3 x 0,15mm ²	A
08313620647	SJ6-Q12MB50-DNÖ	NPN	2m cable PVC 3 x 0,15mm ²	A
08313661211	SJ6-Q12MB60-DPS-V1	PNP	connector M8 3-pole	A1
08313661221	SJ6-Q12MB60-DPÖ-V1	PNP	connector M8 3-pole	A1
08313661231	SJ6-Q12MB60-DNS-V1	NPN	connector M8 3-pole	A1
08313661241	SJ6-Q12MB60-DNÖ-V1	NPN	connector M8 3-pole	A1
08313620618	SJ6-Q12MB50-DPS-AM	PNP	2m cable PVC 3 x 0,15mm ²	B
08313620628	SJ6-Q12MB50-DPÖ-AM	PNP	2m cable PVC 3 x 0,15mm ²	B
08313620638	SJ6-Q12MB50-DNS-AM	NPN	2m cable PVC 3 x 0,15mm ²	B
08313620648	SJ6-Q12MB50-DNÖ-AM	NPN	2m cable PVC 3 x 0,15mm ²	B
08313661217	SJ6-Q12MB60-DPS-V1-AM	PNP	connector M8 3-pole	B1
08313661227	SJ6-Q12MB60-DPÖ-V1-AM	PNP	connector M8 3-pole	B1
08313661237	SJ6-Q12MB60-DNS-V1-AM	NPN	connector M8 3-pole	B1
08313661247	SJ6-Q12MB60-DNÖ-V1-AM	NPN	connector M8 3-pole	B1

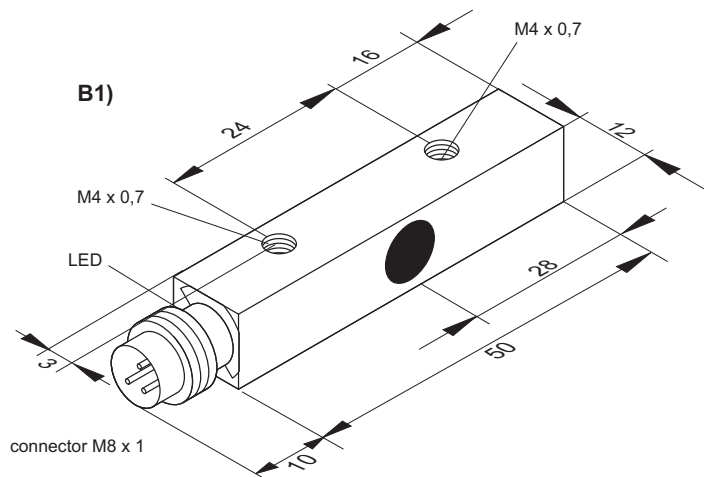
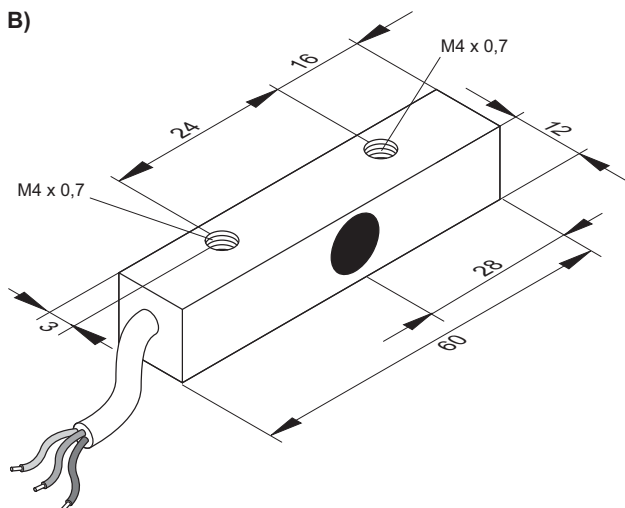
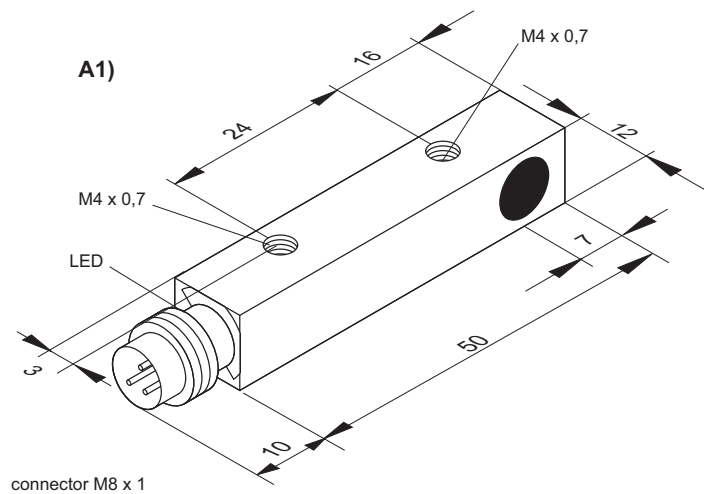
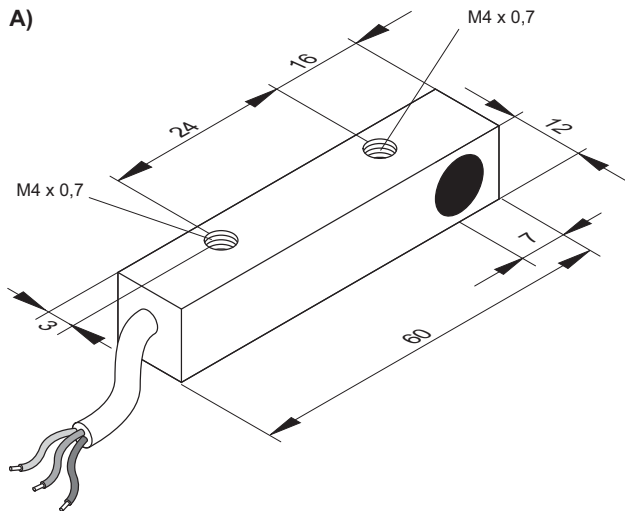
Other cable lengths as requested.

AM - active field in center.



SQUARE Q12

Dimensions



all data in mm



CYLINDER M18

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current	$\leq 50\mu A$
Max. switching frequency f	KJ12... 300Hz SJ12... 300Hz KJ20... 100Hz SJ20... 100Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated
Front cap	PBT



The drawings of these sensors are shown on the next page.

Selection chart

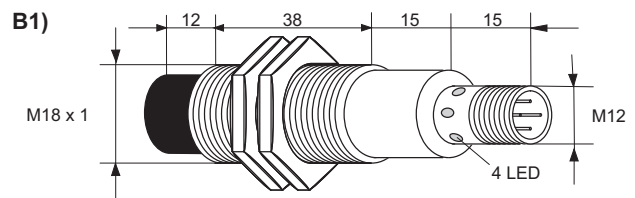
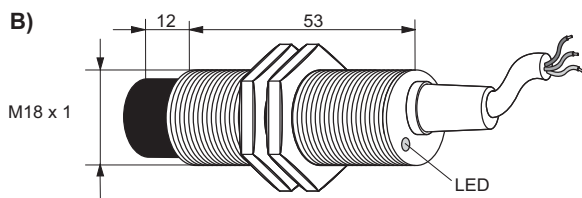
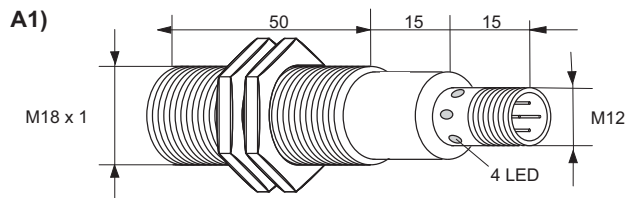
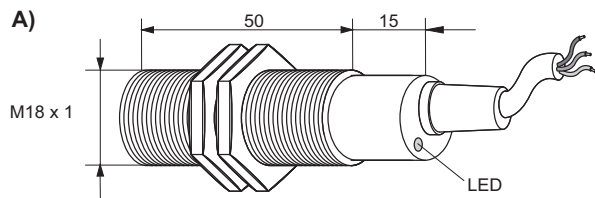
Article number	Designation switching distance 12mm	Mounting	Output signal	Connection	Drawing (next page)
08317845000	KJ12-M18MB65-DPS	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313181227	SJ12-M18MB65-DPÖ	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08317845100	KJ12-M18MB65-DNS	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313181247	SJ12-M18MB65-DNÖ	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08317845065	KJ12-M18MB76-DPS-V2	shielded	PNP	connector M12 4-pole	A1
08313121822	SJ12-M18MB76-DPÖ-V2	shielded	PNP	connector M12 4-pole	A1
08313121832	SJ12-M18MB76-DNS-V2	shielded	NPN	connector M12 4-pole	A1
08313121842	SJ12-M18MB76-DNÖ-V2	shielded	NPN	connector M12 4-pole	A1
	Designation switching distance 20mm				
08317845200	KJ20-M18MN65-DPS	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	B
08313182027	SJ20-M18MN65-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	B
08317845300	KJ20-M18MN65-DNS	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	B
08313182047	SJ20-M18MN65-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	B
08317845265	KJ20-M18MN76-DPS-V2	non shielded	PNP	connector M12 4-pole	B1
08313201822	SJ20-M18MN76-DPÖ-V2	non shielded	PNP	connector M12 4-pole	B1
08317845365	KJ20-M18MN76-DNS-V2	non shielded	NPN	connector M12 4-pole	B1
08313201842	SJ20-M18MN76-DNÖ-V2	non shielded	NPN	connector M12 4-pole	B1

Other cable lengths as requested.



CYLINDER M18

Dimensions



all data in mm



CYLINDER G20

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	SJ12... 300Hz SJ20... 100Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



The drawings of these sensors are shown on the next page.

Selection chart

Article number	Designation switching distance 12mm	Mounting	Output signal	Connection	Drawing (next page)
08313201217	SJ12-G20KB80-DPS	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313201227	SJ12-G20KB80-DPÖ	shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313201237	SJ12-G20KB80-DNS	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313201247	SJ12-G20KB80-DNÖ	shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313122012	SJ12-G20KB92-DPS-V2/1	shielded	PNP	connector M12 4-pole	B
08313122022	SJ12-G20KB92-DPÖ-V2/1	shielded	PNP	connector M12 4-pole	B
08313122032	SJ12-G20KB92-DNS-V2/1	shielded	NPN	connector M12 4-pole	B
08313122042	SJ12-G20KB92-DNÖ-V2/1	shielded	NPN	connector M12 4-pole	B

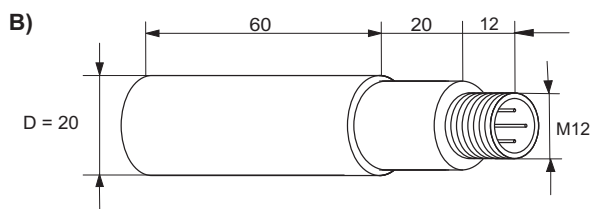
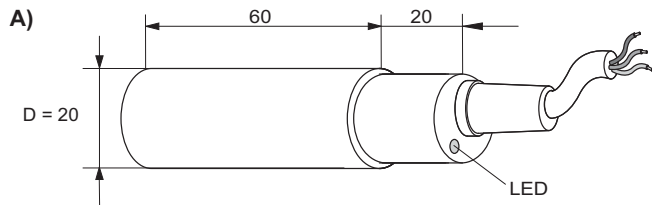
	Designation switching distance 20mm				
08313202017	SJ20-G20KN80-DPS	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313202027	SJ20-G20KN80-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,34mm ²	A
08313202037	SJ20-G20KN80-DNS	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313202047	SJ20-G20KN80-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,34mm ²	A
08313202012	SJ20-G20KN92-DPS-V2/1	non shielded	PNP	connector M12 4-pole	B
08313202022	SJ20-G20KN92-DPÖ-V2/1	non shielded	PNP	connector M12 4-pole	B
08313202032	SJ20-G20KN92-DNS-V2/1	non shielded	NPN	connector M12 4-pole	B
08313202042	SJ20-G20KN92-DNÖ-V2/1	non shielded	NPN	connector M12 4-pole	B

Other cable lengths as requested.



CYLINDER G20

Dimensions



all data in mm



CYLINDER M30

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current	$\leq 50\mu A$
Max. switching frequency f	KJ22... 300Hz SJ22... 300Hz KJ40... 100Hz SJ40... 100Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	brass, nickel-plated
Front cap	PBT



The drawings of these sensors are shown on the following page.

Selection chart

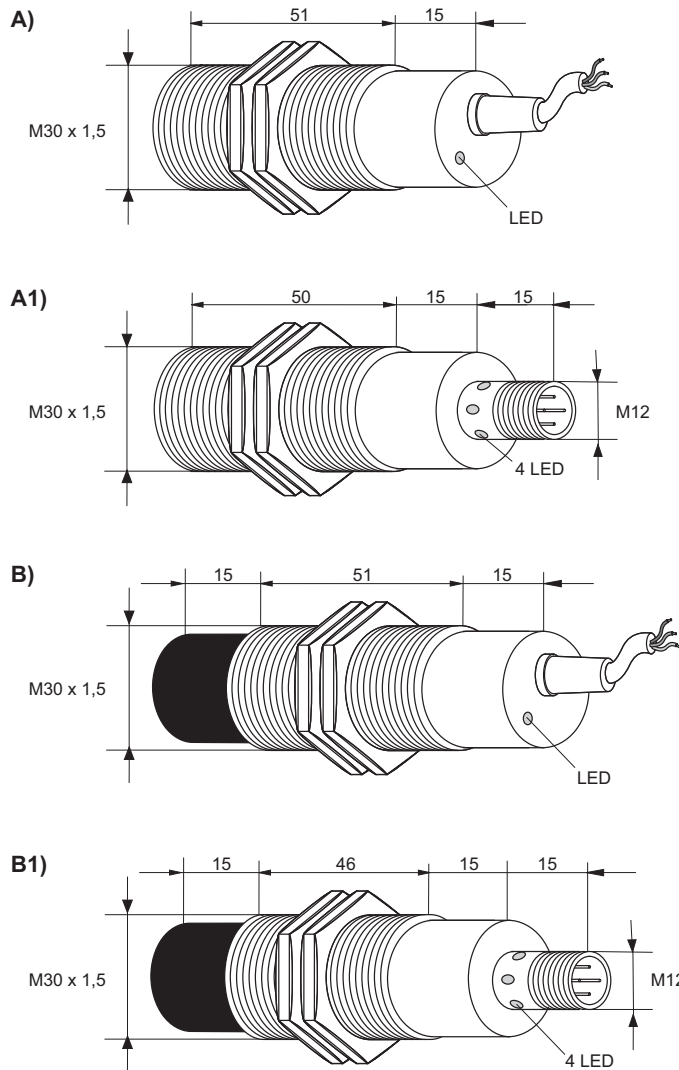
Article number	Designation switching distance 22mm	Mounting	Output signal	Connection	Drawing (next page)
08317865000	KJ22-M30MB65-DPS	shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08317865400	KJ22-M30MB65-DPÖ	shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08317865100	KJ22-M30MB65-DNS	shielded	NPN	2m cable PVC 3 x 0,5mm ²	A
08313302247	SJ22-M30MB65-DNÖ	shielded	NPN	2m cable PVC 3 x 0,5mm ²	A
08317865065	KJ22-M30MB80-DPS-V2	shielded	PNP	connector M12 4-pole	A1
08313223022	SJ22-M30MB80-DPÖ-V2	shielded	PNP	connector M12 4-pole	A1
08313223032	SJ22-M30MB80-DNS-V2	shielded	NPN	connector M12 4-pole	A1
08323223042	SJ22-M30MB80-DNÖ-V2	shielded	NPN	connector M12 4-pole	A1
	Designation switching distance 40mm				
08317865200	KJ40-M30MN80-DPS	non shielded	PNP	2m cable PVC 3 x 0,5mm ²	B
08313304027	SJ40-M30MN80-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,5mm ²	B
08317865300	KJ40-M30MN80-DNS	non shielded	NPN	2m cable PVC 3 x 0,5mm ²	B
08313304047	SJ40-M30MN80-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,5mm ²	B
08317865265	KJ40-M30MN95-DPS-V2	non shielded	PNP	connector M12 4-pole	B1
08313403022	SJ40-M30MN95-DPÖ-V2	non shielded	PNP	connector M12 4-pole	B1
08317865365	SJ40-M30MN95-DNS-V2	non shielded	NPN	connector M12 4-pole	B1
08313403042	SJ40-M30MN95-DNÖ-V2	non shielded	NPN	connector M12 4-pole	B1

Other cable lengths as requested.



CYLINDER M30

Dimensions



all data in mm



CYLINDER G34

General data

Operating voltage U_b	10V ... 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current	$\leq 10\mu A$
Max. switching frequency f	SJ22... 300Hz SJ40... 100Hz
Hysteresis H	$\leq 15\%$ (Sr)
Repeatability R	$\leq 2\%$ (Sr)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$ (Sr)
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



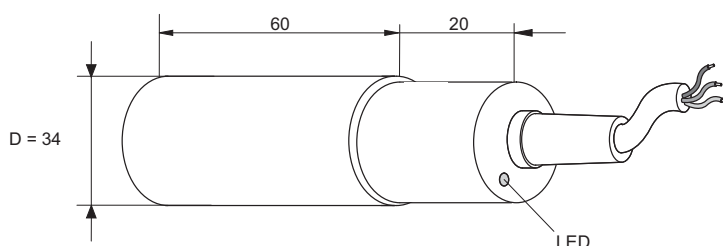
Selection chart

Article number	Designation switching distance 22mm	Mounting	Output signal	Connection	Drawing (next page)
08313342217	SJ22-G34KB80-DPS	shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08313342227	SJ22-G34KB80-DPÖ	shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08313342237	SJ22-G34KB80-DNS	shielded	NPN	2m cable PVC 3 x 0,5mm ²	A
08313342247	SJ22-G34KB80-DNÖ	shielded	NPN	2m cable PVC 3 x 0,5mm ²	A

	Designation switching distance 40mm				
08313344017	SJ40-G34KN80-DPS	non shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08313344027	SJ40-G34KN80-DPÖ	non shielded	PNP	2m cable PVC 3 x 0,5mm ²	A
08313344037	SJ40-G34KN80-DNS	non shielded	NPN	2m cable PVC 3 x 0,5mm ²	A
08313344047	SJ40-G34KN80-DNÖ	non shielded	NPN	2m cable PVC 3 x 0,5mm ²	A

Other cable lengths as requested.

Dimensions



all data in mm

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NOTES



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NOTES



DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆	┆
1	2	3	4	5	6	7	8	9	10	11	12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magnetoresistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



CYLINDER G3

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

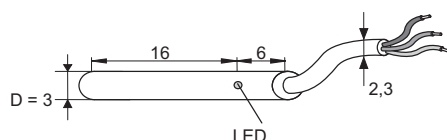


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal	Switching distance
08317803010	KJ0,6-G3EB22-DPS	PNP	0,6mm
08313030081	SJ0,8-G3EB22-DPS	PNP	0,8mm
08313030082	SJ0,8-G3EB22-DPÖ	PNP	0,8mm
08313030083	SJ0,8-G3EB22-DNS	NPN	0,8mm
08313030084	SJ0,8-G3EB22-DNÖ	NPN	0,8mm

Dimensions



all data in mm



CYLINDER M4

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$< 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

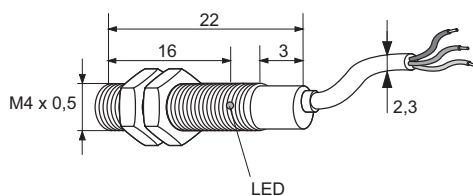


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal	Switching distance
08317801210	KJ0,6-M4EB-DPS	PNP	0,6mm
08313040085	SJ0,8-M4EB22-DPS	PNP	0,8mm
08313040086	SJ0,8-M4EB22-DPÖ	PNP	0,8mm
08313040087	SJ0,8-M4EB22-DNS	NPN	0,8mm
08313040088	SJ0,8-M4EB22-DNÖ	NPN	0,8mm

Dimensions



all data in mm



CYLINDER G4

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

Selection chart

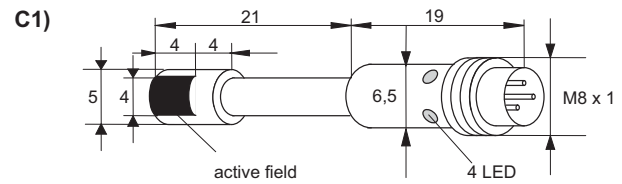
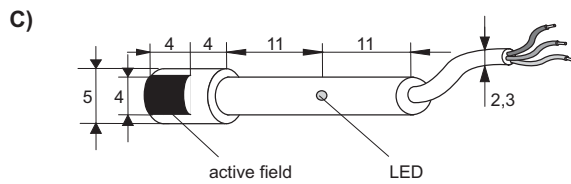
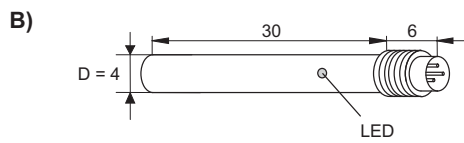
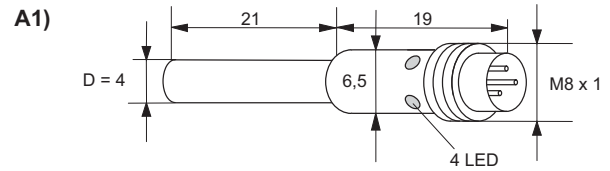
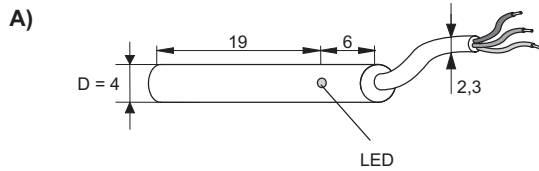
Article number	Designation standard	Output signal	Connection	Switching distance	Drawing (next page)
08317801010	KJ0,8-G4EB25-DPS	PNP	2m cable PUR 3 x 0,15mm ²	0,8mm	A
08317801110	KJ0,8-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	0,8mm	A
08317801064	KJ0,8-G4EB38-DPS-V1	PNP	connector M8 3-pole	0,8mm	A1
08316801164	KJ0,8-G4EB38-DNS-V1	NPN	connector M8 3-pole	0,8mm	A1
08313040120	SJ1-G4EB25-DPÖ	PNP	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040130	SJ1-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040140	SJ1-G4EB25-DNÖ	NPN	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040131	SJ1-G4EB40-DNS-V1	NPN	connector M8 3-pole	1mm	A1
08313040141	SJ1-G4EB40-DNÖ-V1	NPN	connector M8 3-pole	1mm	A1
08313040161	SJ0,8-G4EB36-DPS-V3	PNP	connector M5 4-pole	0,8mm	B
	Designation angled				
08313040112	SJ1W-G4EB30-DPS	PNP	2m cable PUR 3 x 0,15mm ²	1mm	C
08313040113	SJ1W-G4EB40-DPS-V1	PNP	connector M8 3-pole	1mm	C1
	Designation double switching distance				
08313041510	SJ1,5-G4EB25-DPS	PNP	2m cable PUR 3 x 0,15mm ²	1,5mm	A
08313041530	SJ1,5-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	1,5mm	A
08313041511	SJ1,5-G4EB40-DPS-V1	PNP	connector M8 3-pole	1,5mm	A1
08313041531	SJ1,5-G4EB40-DNS-V1	NPN	connector M8 3-pole	1,5mm	A1

Other cable lengths and output configurations on request.



CYLINDER G4

Dimensions



all data in mm



CYLINDER M5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM (except SJ0,8... PCP)



The drawings of these sensors are shown on the following page.

Selection chart

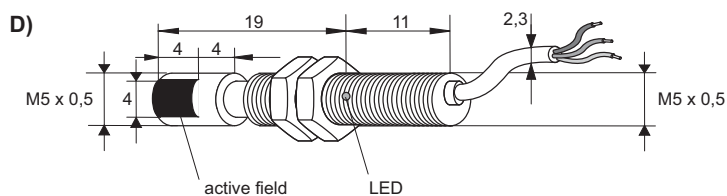
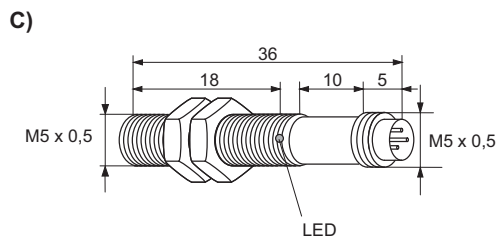
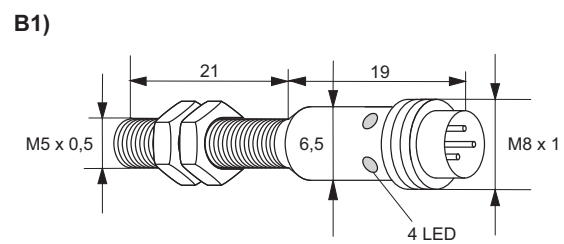
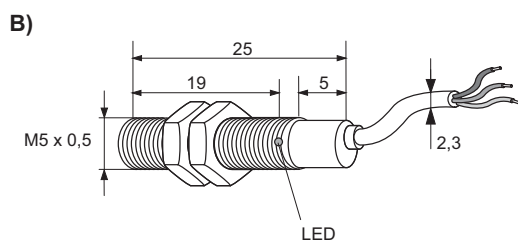
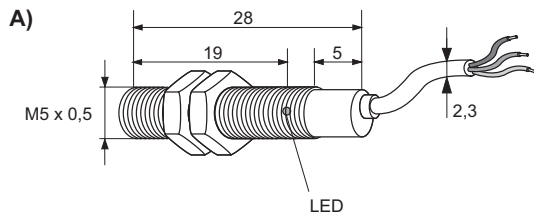
Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313050124	SJ0,8-M5EB28-DPÖ	PNP	0,8mm	2m cable PUR 3 x 0,15mm ²	A
08313050144	SJ0,8-M5EB28-DNÖ	NPN	0,8mm	2m cable PUR 3 x 0,15mm ²	A
08310000023	KJ0,8-M5EB25-DPS	PNP	0,8mm	2m cable PUR 3 x 0,15mm ²	B
08317802110	KJ0,8-M5EB25-DNS	NPN	0,8mm	2m cable PUR 3 x 0,15mm ²	B
08317802064	KJ0,8-M5EB38-DPS-V1	PNP	0,8mm	connector M8 3-pole	B1
08317802464	KJ0,8-M5EB38-DPÖ-V1	PNP	0,8mm	connector M8 3-pole	B1
08313050111	SJ1-M5EB40-DPS-V1	PNP	1mm	connector M8 3-pole	B1
08313050161	SJ0,8-M5EB36-DPS-V3	PNP	0,8mm	connector M5 4-pole	C
	Designation angled				
08313050112	SJ1W-M5EB30-DPS	PNP	1mm	2m cable PUR 3 x 0,15mm ²	D
	Designation double switching distance				
08313051590	SJ1,5-M5EB25-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	B
08313051597	SJ1,5-M5EB40-DPS-V1	PNP	1,5mm	connector M8 3-pole	B1

Other cable lengths and output configurations as requested.



CYLINDER M5

Dimensions



all data in mm



CYLINDER G5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Switching distance	1,5mm
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PVC 3 x 0,15mm ²

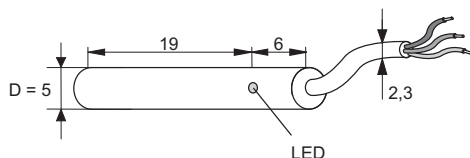


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08313050151	SJ1,5-G5EB25-DPS	PNP
08313050152	SJ1,5-G5EB25-DPÖ	PNP
08313050153	SJ1,5-G5EB25-DNS	NPN
08313050154	SJ1,5-G5EB25-DNÖ	NPN

Dimensions



all data in mm



CYLINDER G6,5

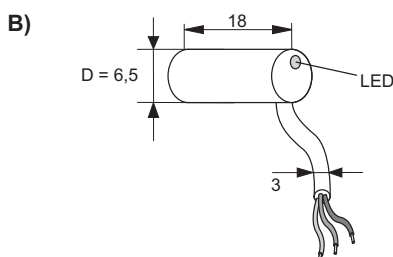
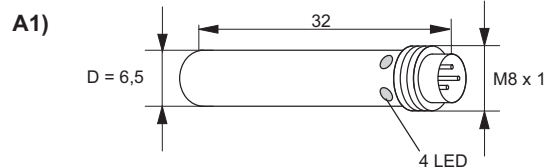
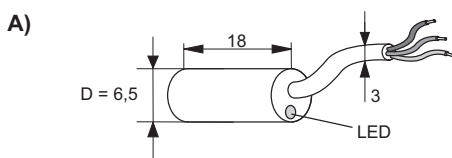
General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The selection chart for these sensors is shown on the following page.

Dimensions



all data in mm



CYLINDER G6,5

Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (previous page)
08313650151	SJ1,5-G6,5EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650152	SJ1,5-G6,5EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650153	SJ1,5-G6,5EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650154	SJ1,5-G6,5EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313651511	SJ1,5-G6,5EB32-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313651521	SJ1,5-G6,5EB32-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313651531	SJ1,5-G6,5EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313651541	SJ1,5-G6,5EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313650210	SJ2-G6,5EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650220	SJ2-G6,5EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650230	SJ2-G6,5EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650240	SJ2-G6,5EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650211	SJ2-G6,5EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313650221	SJ2-G6,5EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313650231	SJ2-G6,5EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313650241	SJ2-G6,5EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313650310	SJ3-G6,5EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650320	SJ3-G6,5EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650330	SJ3-G6,5EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650340	SJ3-G6,5EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650311	SJ3-G6,5EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313650321	SJ3-G6,5EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313650331	SJ3-G6,5EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313650341	SJ3-G6,5EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1
	Designation angled				
08313650155	SJ1,5-G6,5EB18-DPS-W	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	B
08313650212	SJ2-G6,5EB18-DPS-W	PNP	2mm	2m cable PUR 3 x 0,15mm ²	B
08313650312	SJ3-G6,5EB18-DPS-W	PNP	3mm	2m cable PUR 3 x 0,15mm ²	B

Other cable lengths as requested.



CYLINDER M8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

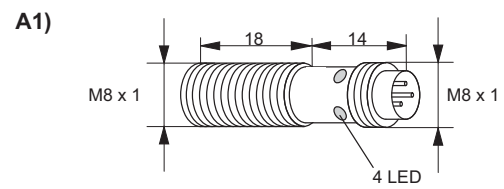
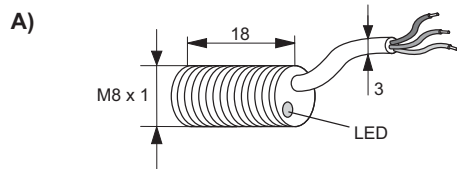
Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313080151	SJ1,5-M8EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080152	SJ1,5-M8EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080153	SJ1,5-M8EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080154	SJ1,5-M8EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08310000027	KJ1,5-M8EB30-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08310000482	KJ1,5-M8EB30-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313080157	SJ1,5-M8EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313080158	SJ1,5-M8EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313080210	SJ2-M8EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080220	SJ2-M8EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080230	SJ2-M8EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080240	SJ2-M8EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080211	SJ2-M8EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313080221	SJ2-M8EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313080231	SJ2-M8EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313080241	SJ2-M8EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313080310	SJ3-M8EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080320	SJ3-M8EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080330	SJ3-M8EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080340	SJ3-M8EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080311	SJ3-M8EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313080321	SJ3-M8EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313080331	SJ3-M8EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313080341	SJ3-M8EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



CYLINDER M8

Dimensions



with two M8 screw nuts each

all data in mm



CYLINDER G8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	Stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

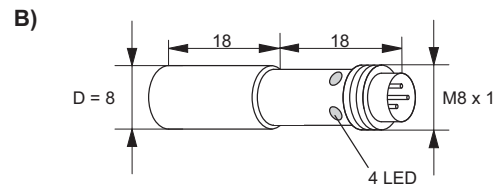
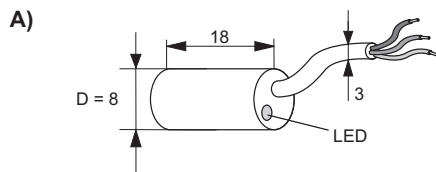
Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313680151	SJ1,5-G8EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680152	SJ1,5-G8EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680153	SJ1,5-G8EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680154	SJ1,5-G8EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680155	SJ1,5-G8EB32-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313680156	SJ1,5-G8EB32-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313680157	SJ1,5-G8EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313680158	SJ1,5-G8EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313680210	SJ2-G8EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680220	SJ2-G8EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680230	SJ2-G8EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680240	SJ2-G8EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680211	SJ2-G8EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313680221	SJ2-G8EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313680231	SJ2-G8EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313680241	SJ2-G8EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313680310	SJ3-G8EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680320	SJ3-G8EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680330	SJ3-G8EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680340	SJ3-G8EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680311	SJ3-G8EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313680321	SJ3-G8EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313680331	SJ3-G8EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313680341	SJ3-G8EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



CYLINDER G8

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

SQUARE Q5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	brass, nickel-plated
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

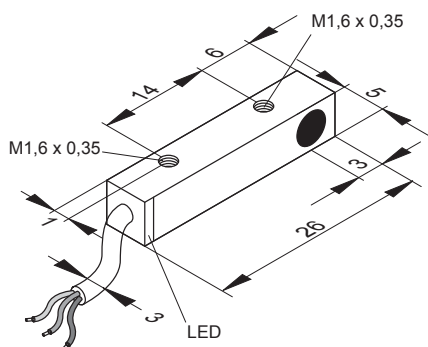


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08313550110	SJ1-Q5MB26-DPS	PNP
08313550120	SJ1-Q5MB26-DPÖ	PNP
08313550130	SJ1-Q5MB26-DNS	NPN
08313550140	SJ1-Q5MB26-DNÖ	NPN

Dimensions



all data in mm



SQUARE Q8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	brass, nickel-plated
Front cap	POM



The drawings of these sensors are shown on the following page.

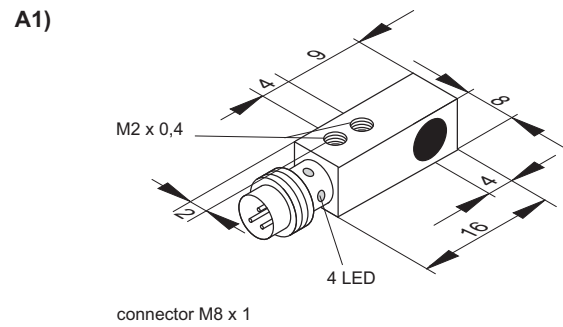
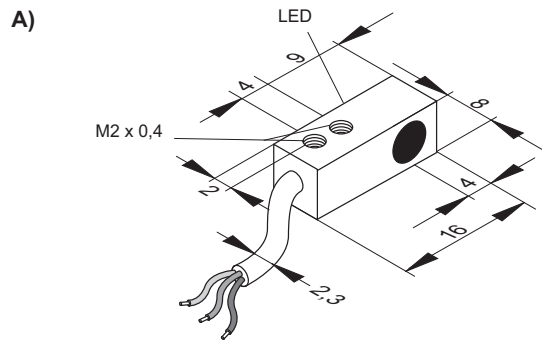
Dimensions

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313880151	SJ1,5-Q8MB16-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880152	SJ1,5-Q8MB16-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880153	SJ1,5-Q8MB16-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880154	SJ1,5-Q8MB16-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880155	SJ1,5-Q8MB28-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313880156	SJ1,5-Q8MB28-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313880157	SJ1,5-Q8MB28-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313880158	SJ1,5-Q8MB28-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313880210	SJ2-Q8MB16-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880220	SJ2-Q8MB16-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880230	SJ2-Q8MB16-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880240	SJ2-Q8MB16-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880211	SJ2-Q8MB28-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313880221	SJ2-Q8MB28-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313880231	SJ2-Q8MB28-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313880241	SJ2-Q8MB28-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313880310	SJ3-Q8MB16-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880320	SJ3-Q8MB16-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880330	SJ3-Q8MB16-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880340	SJ3-Q8MB16-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880311	SJ3-Q8MB28-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313880321	SJ3-Q8MB28-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313880331	SJ3-Q8MB28-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313880341	SJ3-Q8MB28-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



SQUARE Q8

Dimensions



all data in mm



PRODUCT OVERVIEW

ACDC

Product group	Designation	Article number	Matchcode	Page
Inductive ACDC	KJ2-M12MB70-AZS	08317240500	9924-0500	7
Inductive ACDC	KJ2-M12MB70-AZÖ	08317240400	9924-0400	7
Inductive ACDC	KJ2-M12MB70-VZS	08317251200		9
Inductive ACDC	KJ2-M12MB70-VZÖ	08317251300		9
Inductive ACDC	KJ4-M12MN70-AZS	08317240700	9924-0700	7
Inductive ACDC	KJ4-M12MN70-AZÖ	08317240900	9924-0900	7
Inductive ACDC	KJ4-M12MN70-VZS	08317251500		9
Inductive ACDC	KJ4-M12MN70-VZÖ	08317251700		9
Inductive ACDC	KJ5-M18MB60-AZS	08317211200	9921-1200	7
Inductive ACDC	KJ5-M18MB60-AZÖ	08317211300	9921-1300	7
Inductive ACDC	KJ5-M18MB60-VZS	08317231200		9
Inductive ACDC	KJ5-M18MB60-VZÖ	08317231300		9
Inductive ACDC	KJ8-M18MN60-VZS	08317231500		9
Inductive ACDC	KJ8-M18MN60-VZÖ	08317231700		9
Inductive ACDC	KJ10-M18MN60-AZS	08317211500	9921-1500	7
Inductive ACDC	KJ10-M18MN60-AZÖ	08317211700	9921-1700	7
Inductive ACDC	KJ10-M30MB60-AZS	08317162600	9916-2600	7
Inductive ACDC	KJ10-M30MB60-AZÖ	08317162100	9916-2100	7
Inductive ACDC	KJ10-M30MB60-VZS	08317171200		9
Inductive ACDC	KJ10-M30MB60-VZÖ	08317171300		9
Inductive ACDC	KJ15-M30MN60-AZS	08317162700	9916-2700	7
Inductive ACDC	KJ15-M30MN60-AZÖ	08317162300	9916-2300	7
Inductive ACDC	KJ15-M30MN60-VZS	08317171500		9
Inductive ACDC	KJ15-M30MN60-VZÖ	08317171700		9
Inductive ACDC	KJ15-Q40KB-AZU	08317533000	9853-3000	11
Inductive ACDC	KJ20-Q40KB-VZU	08317730000	9873-0000	13
Inductive ACDC	KJ40-Q40KN-AZU	08317533200	9853-3200	11
Inductive ACDC	KJ40-Q40KN-VZU	08317730200	9873-0200	13
Inductive ACDC	KJ50-Q80KN-AZS	08317551000	9855-1000	11

Analog

Product group	Designation	Article number	Matchcode	Page
Inductive Analog	KJ2-G6,5MB40-ANU	08317140050		20
Inductive Analog	KJ2-M8MB40-ANU	08317140000		21
Inductive Analog	KJ2-M8MB60-ANU-V1	08317140064		21
Inductive Analog	KJ3-M12MB50-ANU	08317143800		22
Inductive Analog	KJ3-M12MB60-ANU-V2	08317143865		22
Inductive Analog	KJ3-M12MB50-ANI	08317141800		23
Inductive Analog	KJ3-M12MB60-ANI-V2	08317141865		23
Inductive Analog	KJ4-M12MN50-ANU	08317144800		22
Inductive Analog	KJ4-M12MN60-ANU-V2	08317144865		22
Inductive Analog	KJ4-M12MN50-ANI	08310000287		23
Inductive Analog	KJ4-M12MN60-ANI-V2	08310001033		23
Inductive Analog	SJ4-M18MB80-ANUI	08313180410		30
Inductive Analog	KJ5-M18MB50-ANU	08317143700		24



PRODUCT OVERVIEW

Analogue

Product group	Designation	Article number	Matchcode	Page
Inductive Analogue	KJ5-M18MB61-ANU-V2	08317143765		24
Inductive Analogue	KJ5-M18MB50-ANI	08317141700	9914-1700	25
Inductive Analogue	KJ5-M18MB61-ANI-V2	08317141765	9914-1765	25
Inductive Analogue	SJ7-M18MN80-ANUI	08313180710		30
Inductive Analogue	KJ8-M18MN50-ANU	08317144700		24
Inductive Analogue	KJ8-M18MN61-ANU-V2	08317144765		24
Inductive Analogue	KJ8-M18MN50-ANI	08310000293		25
Inductive Analogue	KJ8-M18MN61-ANI-V2	08310001031		25
Inductive Analogue	KJ9-M30MB40-ANU	08317143600		26
Inductive Analogue	KJ9-M30MB50-ANU-V2	08317143665		26
Inductive Analogue	KJ9-M30MB40-ANI	08317141600	9914-1600	28
Inductive Analogue	KJ9-M30MB50-ANI-V2	08317141665	9914-1665	28
Inductive Analogue	KJ10-M18MN60-ANU-DPSS-D	08317144730		19
Inductive Analogue	SJ10-M30MB80-ANUI	08313103010		30
Inductive Analogue	KJ14-M30MN80-ANU-4BIT	08317141000	9914-1000	26
Inductive Analogue	KJ14-M30MN80-ANU-F1	08317140500	9914-0500	26
Inductive Analogue	KJ14-M30MN80-ANU-F2	08317140600	9914-0600	26
Inductive Analogue	SJ14-M30MN80-ANUI	08313301410		30
Inductive Analogue	KJ15-M30MN40-ANU	08317144600		26
Inductive Analogue	KJ15-M30MN50-ANU-V2	08317144665		26
Inductive Analogue	KJ15-M30MN40-ANI	08310000294		28
Inductive Analogue	KJ15-M30MN50-ANI-V2	08310001032		28
Inductive Analogue	KJ20-Q40KN-ANU	08317141100	9814-1100	29
Inductive Analogue	SJ20-Q40KN-ANUI	08313204010		32

Cylinder DC

Product group	Designation	Article number	Matchcode	Page
Inductive Cylinder DC	SJ1,5-G6,5EB45-DPA	08313651564		37
Inductive Cylinder DC	SJ1,5-G6,5EB45-DNA	08313651554		37
Inductive Cylinder DC	KJ1,5-M8MB40-DPS	08317610200	9961-0200	39
Inductive Cylinder DC	KJ1,5-M8MB40-DNS	08317610300	9961-0300	39
Inductive Cylinder DC	KJ1,5-M8MB50-DPS-V1	08317610264	9961-0264	39
Inductive Cylinder DC	KJ1,5-M8MB50-DNS-V1	08317610364	9961-0364	39
Inductive Cylinder DC	KJ1,5-M8MB50-DPS-V2	08317610265	9961-0265	39
Inductive Cylinder DC	KJ1,5-M8MB50-DNS-V2	08317610365	9961-0365	39
Inductive Cylinder DC	SJ1,5-M8EB45-DPA	08313081560		39
Inductive Cylinder DC	SJ1,5-M8EB45-DNA	08313081550		39
Inductive Cylinder DC	KJ2-G6,5MB30-DPS	08317816000	9981-6000	37
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Product group	Designation	Article number	Matchcode	Page
Inductive Namur	KJ8-M18MN30-NA	08317320600	9932-0600	71
Inductive Namur	KJ8-M18MN50-NA-V2	08317320665	9932-0665	71
Inductive Namur	KJ10-M30KB40-NA	08317321500	9932-1500	73
Inductive Namur	KJ10-M30MB40-NA	08317320700	9932-0700	73
Inductive Namur	KJ10-M30MB60-NA-V2	08317320765	9932-0765	73
Inductive Namur	KJ15-M30KN40-NA	08317321400	9932-1400	73
Inductive Namur	KJ15-M30MN40-NA	08317320800	9932-0800	73
Inductive Namur	KJ15-M30MN60-NA-V2	08317320865	9932-0865	73

Ring sensors

Product group	Designation	Article number	Matchcode	Page
Inductive Ring sensors	KJR-D6KN-ANU-V2	08310000894		87
Inductive Ring sensors	KJR-D6KN-DPA-V2	08310000982		81
Inductive Ring sensors	KJR-D6KN-DNA-V2	08310000983		81
Inductive Ring sensors	KJR-D6KN-DPIA-V2	08310001003		84
Inductive Ring sensors	KJR-D6KN-DNIA-V2	08310001008		84
Inductive Ring sensors	KJR-D10KN-ANU-V2	08310000895		87
Inductive Ring sensors	KJR-D10KN-DPA-V2	08310000984		81
Inductive Ring sensors	KJR-D10KN-DNA-V2	08310000985		81
Inductive Ring sensors	KJR-D10KN-DPIA-V2	08310001004		84
Inductive Ring sensors	KJR-D10KN-DNIA-V2	08310001009		84
Inductive Ring sensors	KJR-D15KN-ANU-V2	08310000896		87
Inductive Ring sensors	KJR-D15KN-DPA-V2	08310000986		81
Inductive Ring sensors	KJR-D15KN-DNA-V2	08310000987		81
Inductive Ring sensors	KJR-D15KN-DPIA-V2	08310001005		84
Inductive Ring sensors	KJR-D15KN-DNIA-V2	08310001010		84
Inductive Ring sensors	KJR-D20KN-ANU-V2	08310000897		87
Inductive Ring sensors	KJR-D20KN-DPA-V2	08310000988		81
Inductive Ring sensors	KJR-D20KN-DNA-V2	08310000989		81
Inductive Ring sensors	KJR-D20KN-DPIA-V2	08310001006		84
Inductive Ring sensors	KJR-D20KN-DNIA-V2	08310001011		84
Inductive Ring sensors	KJR-D30KN-ANU-V2	08310000898		87
Inductive Ring sensors	KJR-D30KN-DPA-V2	08310000990		81
Inductive Ring sensors	KJR-D30KN-DNA-V2	08310000991		81
Inductive Ring sensors	KJR-D30KN-DPIA-V2	08310001007		84
Inductive Ring sensors	KJR-D30KN-DNIA-V2	08310001012		84
Inductive Ring sensors	KJR-D50FAN-DPA-V2	08317050665		81
Inductive Ring sensors	KJR-D50FAN-DNA-V2	08317050265		81
Inductive Ring sensors	KJR-D50AN-DPIA-V2	08317010865		84
Inductive Ring sensors	KJR-D50AN-DNIA-V2	08317010765		84
Inductive Ring sensors	KJR-D50FAN-DNIA-V2	08317010265		84
Inductive Ring sensors	KJR-D70AN-DNIA-V2	08317110065		84
Inductive Ring sensors	KJR-D100AN-DPA-V2	08317080565		81
Inductive Ring sensors	KJR-D100FAN-DPA-V2	08317080365		81
Inductive Ring sensors	KJR-D100FAN-DNA-V2	08317080465		81



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Ring sensors

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Inductive Ring sensors	KJR-D100AN-DNA-VE	08317080150	9708-0150	81
Inductive Ring sensors	KJR-D100AN-DPIA-V2	08317000265		84
Inductive Ring sensors	KJR-D100AN-DNIA-V2	08317000165		84
Inductive Ring sensors	KJR-Q130AN-DPA-VE	08417090659	9709-0659	81
Inductive Ring sensors	KJR-Q130AN-DNA-VE	08317090159	9709-0159	81
Inductive Ring sensors	KJR-Q130AN-DNIA-VE	08317090359	9709-0359	84
Inductive Ring sensors	KJR-D200AN-DPA-V2	08317160665		81
Inductive Ring sensors	KJR-D200AN-DNA-V2	08317160165		81
Inductive Ring sensors	KJR-D200AN-DPIA-V2	08317030265		84
Inductive Ring sensors	KJR-D200AN-DNIA-V2	08317030165		84
Inductive Ring sensors	KJR-Q290AN-DNIA-VE	08317090259	9709-0259	84
Inductive Ring sensors	KJR-D300AN-DPA-V2	08317070665		81
Inductive Ring sensors	KJR-D300AN-DNA-V2	08317071165		81
Inductive Ring sensors	KJR-D300AN-DPIA-V2	08317040265		84
Inductive Ring sensors	KJR-D300AN-DNIA-V2	08317040165		84
Inductive Ring sensors	Control unit 115VAC / 24VDC	08349005013		89
Inductive Ring sensors	Control unit 230VAC / 24VDC	08349005011		89
Inductive Ring sensors	V2-4/P/2m	44505125310	9512-5310	90
Inductive Ring sensors	V2-4/P/5m	44505125312	9512-5312	90
Inductive Ring sensors	VE-5/2m	44505120200	9512-0200	90
Inductive Ring sensors	VE-5/5m	44505120202	9512-0202	90

Square, Micro Square

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Inductive Square, Micro Square	SJ1-Q5MB26-DPS	08313550110		95
Inductive Square, Micro Square	SJ1-Q5MB26-DPÖ	08313550120		95
Inductive Square, Micro Square	SJ1-Q5MB26-DNS	08313550130		95
Inductive Square, Micro Square	SJ1-Q5MB26-DNÖ	08313550140		95
Inductive Square, Micro Square	SJ1,2-Q6KN19-DPS	08313661210		108
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DPS	08313661219		108
Inductive Square, Micro Square	SJ1,2-Q6KN19-DPÖ	08313661220		108
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DPÖ	08313661229		108
Inductive Square, Micro Square	SJ1,2-Q6KN19-DNS	08313661230		108
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DNS	0831366xxxx		108
Inductive Square, Micro Square	SJ1,2-Q6KN19-DNÖ	08313661240		108
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DNÖ	0831366xxxx		108
Inductive Square, Micro Square	KJ1,5-Q8MB40-DPS	08317611000		96
Inductive Square, Micro Square	KJ1,5-Q8MB40-DPS-AM	08317611100		96
Inductive Square, Micro Square	SJ1,5-Q8KN20-DPS	08313881512		109
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DPS	08313881519		109
Inductive Square, Micro Square	SJ1,5-Q8KN20-DPÖ	08313881522		109
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DPÖ	08313881529		109
Inductive Square, Micro Square	SJ1,5-Q8KN20-DNS	08313881532		109
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DNS	08313881539		109
Inductive Square, Micro Square	SJ1,5-Q8KN20-DNÖ	08313881542		109



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Square, Micro Square

Product group	Designation	Article number	Matchcode	Page
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DNÖ	08313881549		109
Inductive Square, Micro Square	KJ1,5-Q8MB60-DPS-V1	08317611064		96
Inductive Square, Micro Square	KJ1,5-Q8MB60-DPS-V1-AM	08317611164		96
Inductive Square, Micro Square	KJ2-Q8AB-DPS	08310000475		96
Inductive Square, Micro Square	KJ2-Q8AB-DPS-AM-X0409	08310000440		96
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ	08310020475		96
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-AM	08310000074		96
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V1	08310000509		96
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V1-AM	08310000369		96
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-V1	0831xxxxxxx		96
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-V1-AM	0831xxxxxxx		96
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V3	08310001035		96
Inductive Square, Micro Square	KJ2-Q9,9AB-DPS	08310000208		98
Inductive Square, Micro Square	KJ2-Q9,9AB-DPÖ-X0303	08310000454		98
Inductive Square, Micro Square	SJ2-Q10KN27-DPS	08313021010		110
Inductive Square, Micro Square	SJ2-Q10KN27-DPÖ	0831xxxxxxx		110
Inductive Square, Micro Square	SJ2-Q10KN27-DNS	0831xxxxxxx		110
Inductive Square, Micro Square	SJ2-Q10KN27-DNÖ	0831xxxxxxx		110
Inductive Square, Micro Square	KJ2-Q12KB-DPS	08317613000		99
Inductive Square, Micro Square	SJ2-Q12KN27-DPS	0831xxxxxxx		110
Inductive Square, Micro Square	KJ2-Q12KB-DPÖ	08317613400		99
Inductive Square, Micro Square	SJ2-Q12KN27-DPÖ	0831xxxxxxx		110
Inductive Square, Micro Square	SJ2-Q12KN27-DNS	0831xxxxxxx		110
Inductive Square, Micro Square	SJ2-Q12KN27-DNÖ	0831xxxxxxx		110
Inductive Square, Micro Square	KJ2-Q12KB-DPS-V1	08317613064		99
Inductive Square, Micro Square	KJ2-Q12KB-DPÖ-V1	08317613464		99
Inductive Square, Micro Square	KJ2-Q28KB-DPS	08310000042		102
Inductive Square, Micro Square	KJ2-Q28KB-DPS-AMP	08310006008		102
Inductive Square, Micro Square	KJ2-Q28KB-DPÖ	08310000437		102
Inductive Square, Micro Square	KJ2-Q28KB-DNS-AMP	08310001094		102
Inductive Square, Micro Square	KJ2-Q28KB-DPS-V1	08310000608		102
Inductive Square, Micro Square	KJ2-Q28KB-DPÖ-V1	08310000632		102
Inductive Square, Micro Square	KJ3-Q8MB40-DPS	08317612000		96
Inductive Square, Micro Square	KJ3-Q8MB60-DPS-V1	08317612064		96
Inductive Square, Micro Square	KJ4-Q12KN-DPS	08317613200		99
Inductive Square, Micro Square	KJ4-Q12KN-DPÖ	08317613600		99
Inductive Square, Micro Square	KJ4-Q12KN-DPS-V1	08317613264		99
Inductive Square, Micro Square	KJ4-Q12KN-DPÖ-V1	08317613664		99
Inductive Square, Micro Square	KJ4-Q12KN-DPA	08310000527		99
Inductive Square, Micro Square	SJ4-Q15KN32-DPS	08313150410		111
Inductive Square, Micro Square	SJ4W-Q15KN30-DPS	08313150419		111
Inductive Square, Micro Square	SJ4-Q15KN32-DPÖ	08313150420		111
Inductive Square, Micro Square	SJ4W-Q15KN30-DPÖ	08313150429		111
Inductive Square, Micro Square	SJ4-Q15KN32-DNS	08313150430		111
Inductive Square, Micro Square	SJ4W-Q15KN30-DNS	08313150439		111
Inductive Square, Micro Square	SJ4-Q15KN32-DNÖ	08313150440		111
Inductive Square, Micro Square	SJ4W-Q15KN30-DNÖ	08313150449		111
Inductive Square, Micro Square	KJ4-Q28KN-DPS	08310000610		102



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Inductive Square, Micro Square	KJ4-Q28KN-DPÖ	08310002041		102
Inductive Square, Micro Square	KJ4-Q28KN-DPS-V1	08310000609		102
Inductive Square, Micro Square	KJ4-Q28KN-DPÖ-V1	08310020184		102
Inductive Square, Micro Square	KJ5-Q25AB-DPS	08310000229		100
Inductive Square, Micro Square	KJ5-Q25KB-DPS	08310000772		100
Inductive Square, Micro Square	KJ5-Q25AB-DPÖ	0831xxxxxxx		100
Inductive Square, Micro Square	KJ5-Q25KB-DPÖ	0831xxxxxxx		100
Inductive Square, Micro Square	KJ5-Q25KB-DPS-V1	08310000203		100
Inductive Square, Micro Square	KJ5-Q25KB-DPÖ-V1	08310000472		100
Inductive Square, Micro Square	KJ5-Q25KB-DPA	08310000901		100
Inductive Square, Micro Square	KJ6-Q12KN-DPS	0831xxxxxxx		99
Inductive Square, Micro Square	KJ6-Q12KN-DPS-V1	0831xxxxxxx		99
Inductive Square, Micro Square	KJ6-Q28KN-DPS-V1	08310000100		102
Inductive Square, Micro Square	KJ6-Q28KN-DPÖ-V1	08310001247		102
Inductive Square, Micro Square	SJ6,4-Q15KN32-DPS	08313156410		111
Inductive Square, Micro Square	SJ6,4W-Q15KN30-DPS	08313156419		111
Inductive Square, Micro Square	SJ6,4-Q15KN32-DPÖ	08313156420		111
Inductive Square, Micro Square	SJ6,4W-Q15KN30-DPÖ	08313156429		111
Inductive Square, Micro Square	SJ6,4-Q15KN32-DNS	08313156430		111
Inductive Square, Micro Square	SJ6,4W-Q15KN30-DNS	08313156439		111
Inductive Square, Micro Square	SJ6,4-Q15KN32-DNÖ	08313156440		111
Inductive Square, Micro Square	SJ6,4W-Q15KN30-DNÖ	08313156449		111
Inductive Square, Micro Square	KJ8-Q25KN-DPS	08310000056		100
Inductive Square, Micro Square	KJ8-Q25KN-DPÖ	0831xxxxxxx		100
Inductive Square, Micro Square	KJ8-Q25KN-DPS-V1	08310000508		100
Inductive Square, Micro Square	KJ8-Q25KN-DPÖ-V1	0831xxxxxxx		100
Inductive Square, Micro Square	KJ8-Q25KN-DPA	08310001079		100
Inductive Square, Micro Square	KJ15-Q40KB-DPU	08317633000	9863-3000	104
Inductive Square, Micro Square	KJ15-Q40KB-DNU	08317633300	9863-3300	104
Inductive Square, Micro Square	KJ15-Q40KB-DPU-V2	08317633065	9863-3065	104
Inductive Square, Micro Square	KJ15-Q40KB-DNU-V2	08317633365	9863-3365	104
Inductive Square, Micro Square	KJ20-Q40KB-DPU	08317832000	9883-2000	104
Inductive Square, Micro Square	KJ20-Q40KB-DNU	08317832300	9883-2300	104
Inductive Square, Micro Square	KJ20-Q40KB-DPU-V2	08317832065	9883-2065	104
Inductive Square, Micro Square	KJ20-Q40KB-DNU-V2	08317832365	9883-2365	104
Inductive Square, Micro Square	KJ25-Q40KT-DPU	08317633100	9863-3100	104
Inductive Square, Micro Square	KJ25-Q40KT-DNU	08317633400	9863-3400	104
Inductive Square, Micro Square	KJ25-Q40KT-DPU-V2	08317633165	9863-3165	104
Inductive Square, Micro Square	KJ25-Q40KT-DNU-V2	08317633465	9863-3465	104
Inductive Square, Micro Square	KJ40-Q40KN-DPU	08317633200	9863-3200	104
Inductive Square, Micro Square	KJ40-Q40KN-DPU	08317832200	9883-2200	104
Inductive Square, Micro Square	KJ40-Q40KN-DNU	08317633500	9863-3500	104
Inductive Square, Micro Square	KJ40-Q40KN-DNU	08317832500	9883-2500	104
Inductive Square, Micro Square	KJ40-Q40KN-DPU-V2	08317633265	9863-3265	104
Inductive Square, Micro Square	KJ40-Q40KN-DPU-V2	08317832265	9883-2265	104
Inductive Square, Micro Square	KJ40-Q40KN-DNU-V2	08317633565	9863-3565	104
Inductive Square, Micro Square	KJ40-Q40KN-DNU-V2	08317832565	9883-2565	104
Inductive Square, Micro Square	KJ40-Q50AB-DPS	08317070900	9807-0900	105



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Square, Micro Square

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Inductive Square, Micro Square	KJ40-Q50AB-DNS	08317070100	9807-0100	105
Inductive Square, Micro Square	KJ40-Q50AB-DPS-V2	08317070965	9807-0965	105
Inductive Square, Micro Square	KJ40-Q50AB-DNS-V2	08317070165	9807-0165	105
Inductive Square, Micro Square	KJ40-Q80KB-DPA	08317651100	9865-1100	106
Inductive Square, Micro Square	KJ50-Q80KN-DPA	08317651000	9865-1000	106
Inductive Square, Micro Square	KJ70-Q100AN-DPS-F1	08316090100	9809-0100	107
Inductive Square, Micro Square	KJ70-Q100AN-DPS-V2-F1	08316090165	9809-0165	107
Inductive Square, Micro Square	KJ70-Q100AN-DNS-V2-F1	08316090365	9809-0365	107
Inductive Square, Micro Square	KJ70-Q100AN-DNS-F1	08316090300	9809-0300	107

Switching distance XXL

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Inductive switching distance XXL	SJ1,2-Q6KN19-DPS-X0319	08313661217		125
Inductive switching distance XXL	SJ1,2-Q6KN19-DNS-X0319	08313661237		125
Inductive switching distance XXL	SJ3-G6,5MB45-DPS	08313650317		117
Inductive switching distance XXL	SJ3-G6,5MB45-DPÖ	08313650327		117
Inductive switching distance XXL	SJ3-G6,5MB45-DNS	08313650337		117
Inductive switching distance XXL	SJ3-G6,5MB45-DNÖ	08313650347		117
Inductive switching distance XXL	SJ3-G6,5MB60-DPS-V1	08313036511		117
Inductive switching distance XXL	SJ3-G6,5MB60-DPÖ-V1	08313036521		117
Inductive switching distance XXL	SJ3-G6,5MB60-DNS-V1	08313036531		117
Inductive switching distance XXL	SJ3-G6,5MB60-DNÖ-V1	08313036541		117
Inductive switching distance XXL	KJ3-M8MB45-DPS	08317815000	9981-5000	120
Inductive switching distance XXL	KJ3-Q8MB40-DPS	08317612000	9861-2000	121
Inductive switching distance XXL	SJ3-Q8MB40-DPS-AM	08313880318		121
Inductive switching distance XXL	KJ3-M8MB45-DPÖ	08317815400	9981-5400	120
Inductive switching distance XXL	SJ3-Q8MB40-DPÖ	08313880327		121
Inductive switching distance XXL	SJ3-Q8MB40-DPÖ-AM	08313880328		121
Inductive switching distance XXL	KJ3-M8MB45-DNS	08317815100	9981-5100	120
Inductive switching distance XXL	KJ3-Q8MB40-DNS	08317612100	9861-2100	121
Inductive switching distance XXL	SJ3-Q8MB40-DNS-AM	08313880338		121
Inductive switching distance XXL	KJ3-M8MB45-DNÖ	08317815500		120
Inductive switching distance XXL	SJ3-Q8MB40-DNÖ	08313880342		121
Inductive switching distance XXL	SJ3-Q8MB40-DNÖ-AM	08313880348		121
Inductive switching distance XXL	KJ3-M8MB60-DPS-V1	08317815064	9981-5064	120
Inductive switching distance XXL	KJ3-Q8MB60-DPS-V1	08317612064	9861-2064	121
Inductive switching distance XXL	SJ3-Q8MB60-DPS-V1-AM	08313880317		121
Inductive switching distance XXL	KJ3-M8EB60-DPÖ-V1	08317815464		120
Inductive switching distance XXL	SJ3-Q8MB60-DPÖ-V1	08313880321		121
Inductive switching distance XXL	SJ3-Q8MB60-DPÖ-V1-AM	08313038827		121
Inductive switching distance XXL	KJ3-M8EB60-DNS-V1	08310001155		120
Inductive switching distance XXL	KJ3-Q8MB60-DNS-V1	08317612164	9861-2164	121
Inductive switching distance XXL	SJ3-Q8MB60-DNS-V1-AM	08313880337		121
Inductive switching distance XXL	KJ3-M8EB60-DNÖ-V1	08317815564		120
Inductive switching distance XXL	SJ3-Q8MB60-DNÖ-V1	08313880341		121



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Switching distance XXL

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Inductive Switching distance XXL	SJ3-Q8MB60-DNÖ-V1-AM	08313880347		121
Inductive Switching distance XXL	KJ3-M8MB70-DPS-V2	08317815065	9981-5065	120
Inductive Switching distance XXL	SJ3-M8MB70-DPÖ-V2	08313030822		120
Inductive Switching distance XXL	SJ3-M8MB70-DNS-V2	08313030832		120
Inductive Switching distance XXL	SJ3-M8MB70-DNÖ-V2	08313030842		120
Inductive Switching distance XXL	SJ6-G6,5MN45-DPS	08313650617		117
Inductive Switching distance XXL	SJ6-G6,5MN45-DPÖ	08313650627		117
Inductive Switching distance XXL	SJ6-G6,5MN45-DNS	08313650637		117
Inductive Switching distance XXL	SJ6-G6,5MN45-DNÖ	08313650647		117
Inductive Switching distance XXL	SJ6-G6,5EN60-DPS-V1	08313066511		117
Inductive Switching distance XXL	SJ6-G6,5EN60-DPÖ-V1	08313066521		117
Inductive Switching distance XXL	SJ6-G6,5MN60-DNS-V1	08313066531		117
Inductive Switching distance XXL	SJ6-G6,5MN60-DNÖ-V1	08313066541		117
Inductive Switching distance XXL	KJ6-M8MN45-DPS	08317815200	9981-5200	120
Inductive Switching distance XXL	SJ6-M8MN45-DPÖ	08317815600		120
Inductive Switching distance XXL	KJ6-M8MN45-DNS	08317815300	9981-5300	120
Inductive Switching distance XXL	SJ6-M8MN45-DNÖ	08313080647		120
Inductive Switching distance XXL	KJ6-M8MN60-DPS-V1	08317815264	9981-5264	120
Inductive Switching distance XXL	SJ6-M8MN60-DPÖ-V1	08313060821		120
Inductive Switching distance XXL	SJ6-M8MN60-DNS-V1	08313060831		120
Inductive Switching distance XXL	SJ6-M8MN60-DNÖ-V1	08313060841		120
Inductive Switching distance XXL	KJ6-M8MN70-DPS-V2	08317815265		120
Inductive Switching distance XXL	SJ6-M8MN70-DPÖ-V2	08313060822	9981-5265	120
Inductive Switching distance XXL	KJ6-M8MN70-DNS-V2	08317815365		120
Inductive Switching distance XXL	SJ6-M8MN70-DNÖ-V2	08313060842		120
Inductive Switching distance XXL	KJ6-M12MB50-DPS	08317825000	9982-5000	123
Inductive Switching distance XXL	SJ6-Q12MB50-DPS	08313620617		125
Inductive Switching distance XXL	SJ6-Q12MB50-DPS-AM	08313620618		125
Inductive Switching distance XXL	SJ6-M12MB50-DPÖ	08313120627		123
Inductive Switching distance XXL	SJ6-Q12MB50-DPÖ	08313620627		125
Inductive Switching distance XXL	SJ6-Q12MB50-DPÖ-AM	08313620628		125
Inductive Switching distance XXL	KJ6-M12MB50-DNS	08317825100	9982-5100	123
Inductive Switching distance XXL	SJ6-Q12MB50-DNS	08313620637		125
Inductive Switching distance XXL	SJ6-Q12MB50-DNS-AM	08313620638		125
Inductive Switching distance XXL	SJ6-M12MB50-DNÖ	08313120647		123
Inductive Switching distance XXL	SJ6-Q12MB50-DNÖ	08313620647		125
Inductive Switching distance XXL	SJ6-Q12MB50-DNÖ-AM	08313620648		125
Inductive Switching distance XXL	SJ6-Q12MB60-DPS-V1	08313661211		125
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