

SPECIALS



p-u-l-s-o-t-r-o-n-i-c



The company

Since more than 50 years the brand PULSOTRONIC stands for innovative automation solutions in industry and in the automotive branch. A wide program of sensor technology, metal detection and peripheral systems guarantees our customers throughout the world an optimum basis for realising demanding applications. Our product range comprehends much more than standard products. We develop custom-specific solutions as single components or complex systems. The large technology range creates the pre-requisites that make us come up to our customers' expectations: to deliver the perfect product for each application!

Program

Sensors

- Inductive sensors
- Inclination sensors
- Angle sensors
- Acceleration sensors
- Strain gauges sensors
- High temperature resistant sensors
- Halleffect sensors
- Capacitive sensors
- Magnetoresistive sensors
- Current transducer sensors
- Acoustic and ultrasonic sensors
- Temperature resistant sensors
- Optoelectronic sensors
- Touch sensors
- Laser sensors
- Colour sensors
- Radar sensors
- Customized products and solutions

Connector systems

Metal detection

Technologies

- SMT and circuit assembling
- Electronics development
- Cable assembling
- Potting technology
- EMC-laboratory
- Rapid prototyping





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Product overview

All sensors at a glance

26 - 28



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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
T	T	T	T	T	T	T	T	T	T	T	T

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

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

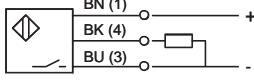
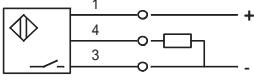
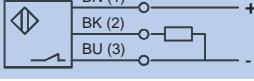
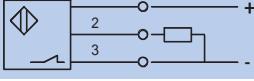
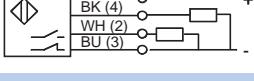
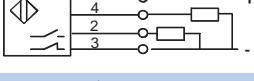
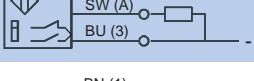
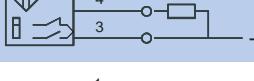
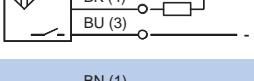
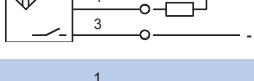
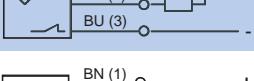
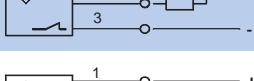
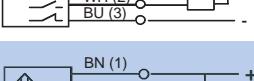
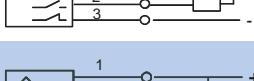
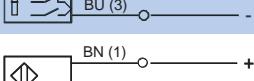
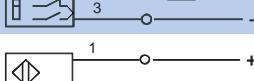
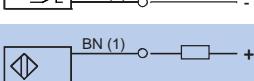
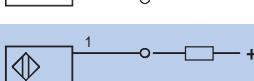
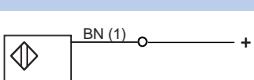
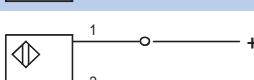
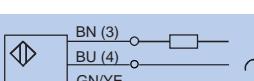
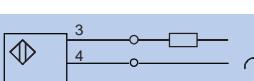
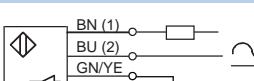
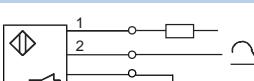
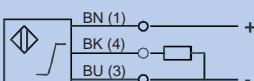
V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torsion
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Tread joint metrical

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		



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INCLINATION SENSORS

Technical data

Inclination sensors detect the absolute deviation from a horizontal plane. This product group includes analog inclination sensors as well as the latest generation with CANOpen-connection, digital AC-switching outputs for the direct control of hydraulic valves or one- or two-axe design. By using micro-mechanic elements all inclination sensors are conform to RoHS. The modular design of the housing allows the use of JPT- or M12-connectors as well as fixed cable options as needed.

Inclination sensors from Pulsotronic monitor agricultural machines, wind energy plants or industrial trucks. On request we arrange the input and output parameters according to your requirements.

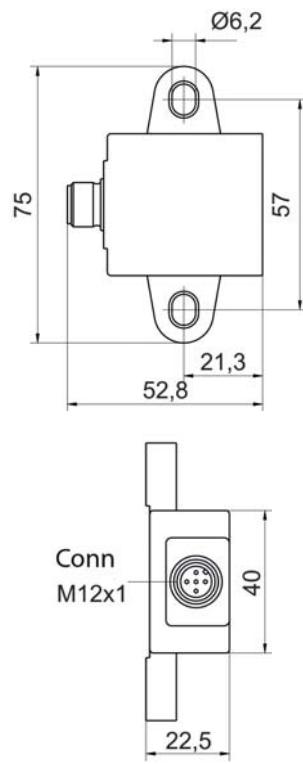


	Type analog voltage	Type analog current
Number of inclination axes	1	1
Mounting	horizontal	horizontal
Operating voltage U_b	10 - 30V DC	10 - 30V DC
Output	voltage 1 - 10V	current 4 - 20mA
Output at 0° / 24V DC	5V +/- 0,1V	12mA +/- 1mA
Output at -90° and $U_b = 24V$	0V	4mA
Output at $+90^\circ$ and $U_b = 24V$	10V	20mA
Max. operating current I_b	$\leq 15\text{mA}$	$\leq 35\text{mA}$
Load resistor R_L	$\geq 10\text{kOhm}$	$\geq 10\text{kOhm}$
Repeat accuracy	5%	5%
Operating temperature T_a	-40°C ... 85°C	-40°C ... 85°C

Selection chart

Article-number	Designation	Inclination	Output function Analog	Connector
08330000066	KN5-Q40KN-ANU-V2	$\pm 5^\circ$	0-10V DC	M12
08330000107	KN15-Q40KN-ANU-V2	$\pm 15^\circ$	0-10V DC	M12
08330000500	KN30-Q40KN-ANU-V2	$\pm 30^\circ$	0-10V DC	M12
08330000075	KN45-Q40KN-ANU-V2	$\pm 45^\circ$	0-10V DC	M12
08330000501	KN60-Q40KN-ANU-V2	$\pm 60^\circ$	0-10V DC	M12
08330000502	KN75-Q40KN-ANU-V2	$\pm 75^\circ$	0-10V DC	M12
08330000095	KN90-Q40KN-ANU-V2	$\pm 90^\circ$	0-10V DC	M12
08330000087	KN5-Q40KN-ANI-V2	$\pm 5^\circ$	4-20mA	M12
08330000503	KN15-Q40KN-ANI-V2	$\pm 15^\circ$	4-20mA	M12
08330000504	KN30-Q40KN-ANI-V2	$\pm 30^\circ$	4-20mA	M12
08330000067	KN45-Q40KN-ANI-V2	$\pm 45^\circ$	4-20mA	M12
08330000080	KN60-Q40KN-ANI-V2	$\pm 60^\circ$	4-20mA	M12
08330000505	KN75-Q40KN-ANI-V2	$\pm 75^\circ$	4-20mA	M12
08330000076	KN90-Q40KN-ANI-V2	$\pm 90^\circ$	4-20mA	M12

other inclinations and two-axis types are optional available



all data in mm



SPECIALS

ACCELERATION SENSOR

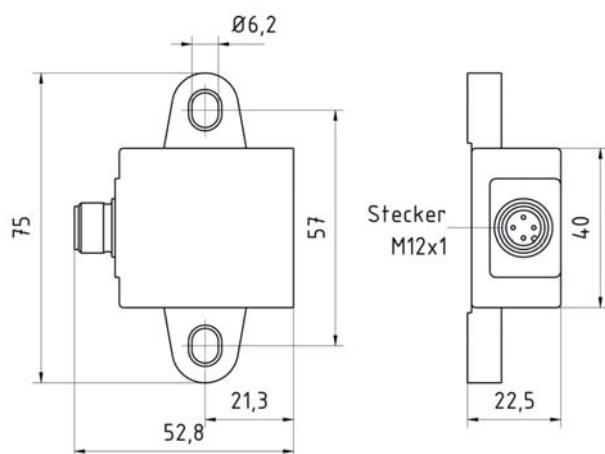
Technical data

Acceleration sensors detect vibrations, seismic activity, inclination in static systems and linear acceleration in machines, buildings and movable goods. On the basis of a micro-electromechanic system (MEMS) this product group includes sensors with analog current- or voltage output, direct BUS-connection or adjustable switching thresholds. The modular design of the housing allows the use of JPT- or M12-connectors as well as fixed cable options as needed.



	Type analog voltage	Type analog current
Acceleration	+/- 1,7g	+/- 1,7g
Mounting	horizontal	horizontal
Operating voltage U_b	12-30V DC	12-30V DC
Output	voltage 1 ... 9V	current 4 ... 20mA
Output at 0g	5V	12mA
Output at -1,7g	1V	4mA
Output at +1,7g	9V	20mA
Operating current I_b	$\leq 15\text{mA}$	$\leq 35\text{mA}$
Threshold frequency	10Hz	10Hz
Load resistor R_L	$\geq 10\text{kOhm}$	$\geq 10\text{kOhm}$
Repeat accuracy	$\leq 5\%$	$\leq 5\%$
Operating temperature T_a	-40°C ... +85°C	-40°C ... +85°C

Dimensions



Please ask for further acceleration-ranges in our portfolio.
Gladly we'll support you!

all data in mm



ANGLE SENSORS

Description

With the newest product line **ROTARY SENSORS KW** PULSOTRONIC expands the portfolio with magnetic sensors for external magnets. Unbeatable advantages of these kind of rotational sensors are:

- robust and easy mechanical design with a high protection degree up to IP 69k
- movings with tolerances for all axis without external utilities
- separate assembling of sensor and magnet (component assembly)
- ultraflat housings from 7mm height and standard housing Q25 / M30
- cost efficient
- termination with M12 pigtail, Superseal JPT or open cable

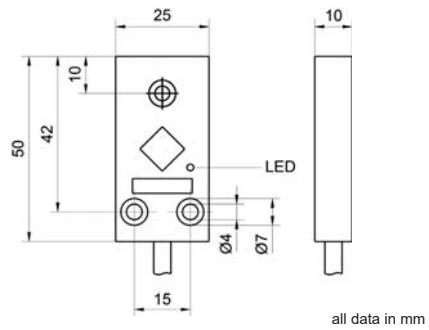
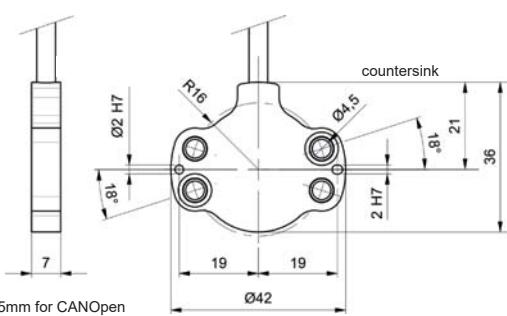


(all specification refer to a standard magnet NdFeB 55/100pw 12x12x4)

Functional Base	magnetic (Hall)
Mounting	Sensor and magent separated
Operating Voltage	10 ... 35 VDC
Sensing Range	1,5 ... 3,5 mm linear up to 6 mm non-linear
Current Consumption	15 mA single / 25 mA duale
Angle Range	0° to 360 ° (teachable by factory setting)
Resolution	12 Bit
Linearity	≤ +/- 1% (teachable linear set of characteristic curves)
Channels	single or duale (full redundant)
Output Signal / Level	Analog voltage, PWM, SPI, Fieldbus - communication at request
Oversupply / Reverse Polarity	protected / protected
Operating Temperatur	-40 °C ... +85 °C (up to 125 °C at request)
Protection Degree	IP 67 acc. to EN 60529 - IP69k depends on mechanical design
Displacement Tolerances	Axial offset (reeling circle) to 1 mm / Tilting tolerance to 2,5 °

Selection chart

Type Number	Type Name	Design Sensor	Output-function Analog/CAN	Termination	Design Magnet
08330001132	KW360-D42KN7-ANU5	D42 x 7	0,5 - 4,5 V	2m cable	D42 x 7
08330001139	KW360-D42KN7-ANU	D42 x 7	1 - 10 V	2m cable	D42 x 7
08330001140	KW360-D42KN7-ANI	D42 x 7	4 - 20 mA	2m cable	D42 x 7
08330001135	KW360-D42KN7-ANI-X0392	D42 x 7	4 - 20 mA	M12 pigtail	D42 x 7
08330001141	KW360-D42KN15-CANO	D42 x 7	CANOpen	2m cable	D42 x 7
08330001133	KW360-Q25KN10-ANU5	Q25x50x10	0,5 - 4,5 V	2m cable	Q28x16x10
08330001136	KW360-Q25KN10-ANI	Q25x50x10	4 - 20 mA	2m cable	Q28x16x10





SPECIALS

TUBE SENSOR

Technical data

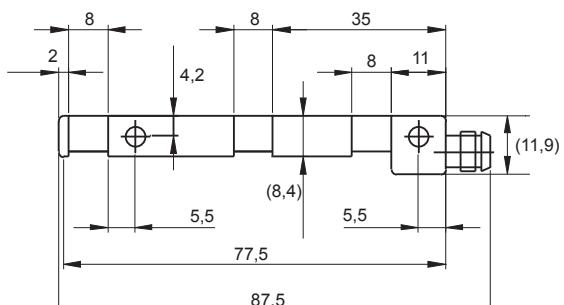
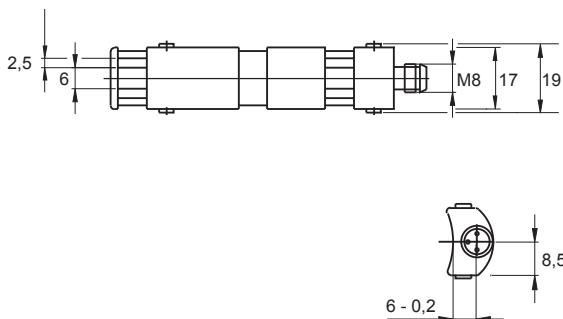
The tube sensor detects moving metallic pieces in hoses or ducts. In contrast to conventional ring sensors the hose sensor can be mounted much easier and faster - the customer saves time and space during installation. The sensors of the new generation work after the principle of dynamic, simultaneously and static. Therefore, we can detect congestion states and smallest components.



Article number	Designation	Function	Termination
08310000903	KJ16-Q16KN-DPS-V1	dynamic 200ms	M8
08310001526	KJ10-Q16KN-DPS-V1-X1028	static 100ms	M8
08310001105	KJ10-Q16KN-DPS-V1	static	M8
08310001891	KJ16-Q16KN-DPS-X0337	static/dynamic 100ms	Pigtail M12

Mounting	non shielded
Operating voltage U_b	10 - 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Max. load current I_e	$\leq 200mA$
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency	300Hz
Switching distance	16mm
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Pulse delay	max. 200ms (selectable)
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Status indicator	LED
Housing material	PA 6.6 black
Front cap	-
Termination	connector M8 3-pole (Pigtail M12 on enquiry)

Dimensions



all data in mm



SPECIALS

INDUCTIVE PRESSURE-RESISTANT SENSORS

Technical data

The product range of PULSOTRONIC includes high pressure-resistant products, which developed and optimised for different applications. With a M12 plug-in connection or optional with M12 Pigtail connector. The maximum switching distance is 2mm. By using a complete closed stainless steel face these sensor types are especially qualified for application in aggressive environmental, in hydraulik devices or in foodstuff industry. Pulsotronic offers pressure-resistant sensors generally with an extended temperature range and up to 500bar pressure resistance. WashDown application and operation areas up to protection of IP68 / IP69K are also suitable. The sensors are available with 14,9mm or 17,9mm frontends (12,9mm at request).



Operating voltage U_b	10 - 30 VDC
Voltage drop U_d	< 2,4V
Max. load current I_e	\leq 200 mA
Off-state current I_0	\leq 10 mA
Residual current I_r	\leq 0,01 mA
Max. switching frequency f	\leq 400 Hz
Hysteresis H	\leq 15%
Operating temperature T_a	- 25°C ... + 100°C (only lenght 50mm, 90°C)
Temperature drift	\leq 10%
Reproducibility	\leq 5%
Protection class	IP 68 (IP69K with suitable M12 plug)
Protected against polarity/short circuit	Yes/yes
Housing material	Stainless steel
Front cap	Stainless steel

Selection chart

Article-number	Designation	Pressure in bar	Lenght pressure range in mm	Drawing (following page)
08310002400	KJD2-M12EB50-DPS-V2	500	14,9	G
08310002401	KJD2-M12EB50-DPÖ-V2	500	14,9	G
08310002402	KJD2-M12EB50-DPS-V2	500	17,9	H
08310002403	KJD2-M12EB50-DPÖ-V2	500	17,9	H
08310001749	KJD2-M12EB56-DPS-V2	500	14,9	A
08310002404	KJD2-M12EB56-DPÖ-V2	500	14,9	A
08310001746	KJD2-M12EB56-DPS-V2	500	17,9	B
08310002405	KJD2-M12EB56-DPÖ-V2	500	17,9	B
08310002406	KJD2-M12EB69-DPS-V2	500	14,9	E
08310002407	KJD2-M12EB69-DPÖ-V2	500	14,9	E
08310002408	KJD2-M12EB69-DPS-V2	500	17,9	F
08310002409	KJD2-M12EB69-DPÖ-V2	500	17,9	F
08310002410	KJD2-M12EB78-DPS-V2	500	14,9	D
08310002411	KJD2-M12EB78-DPÖ-V2	500	14,9	D
08310001781	KJD2-M12EB78-DPS-V2	500	17,9	C
08310002412	KJD2-M12EB78-DPÖ-V2	500	17,9	C

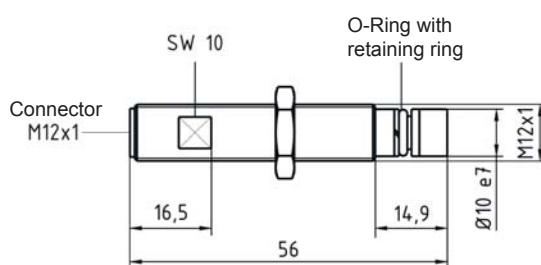


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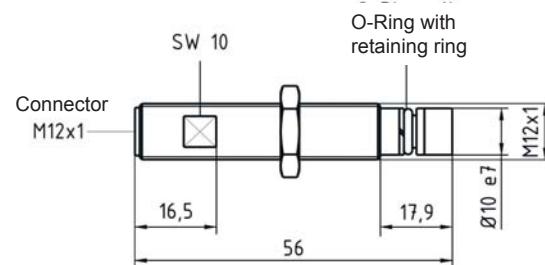
INDUCTIVE PRESSURE-RESISTANT SENSORS

Dimension

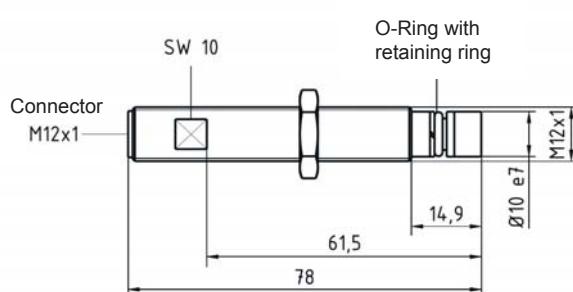
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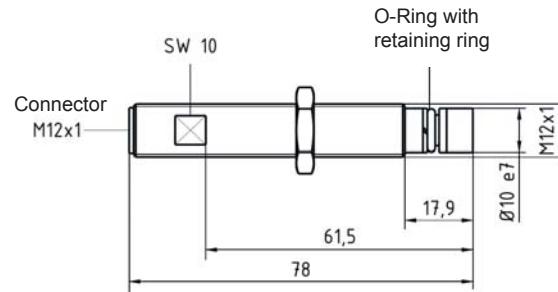
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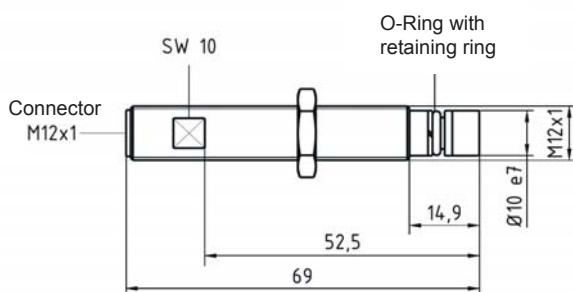
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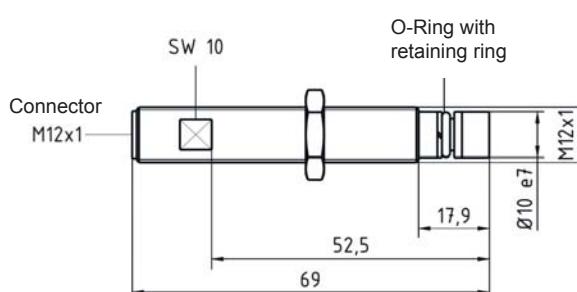
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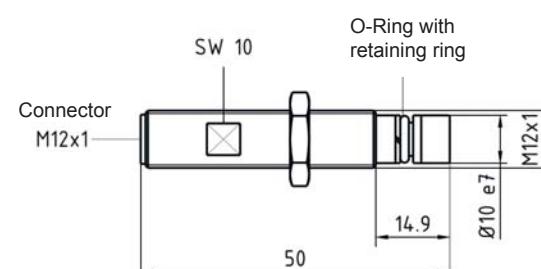
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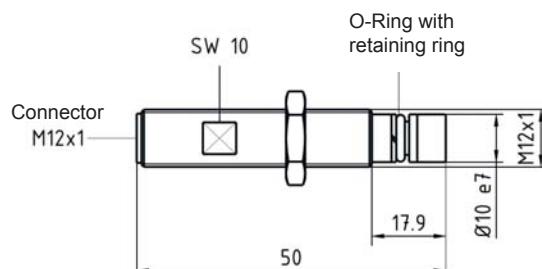
F)



G)



H)



all data in mm



SPECIALS

HIGH TEMPERATURE-RESISTANT SENSORS

GENERAL DATA

Sensors for applications that require an enlarged operating temperature range from -40°C ... 180°C. These sensors are especially used in applications that demand a high dependability in extreme temperatures like in steel mills, blast furnaces and in the food industry.

Operating voltage U_b	10-35V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,0\text{V}$
Output function	PNP-N.O. (others as request)
Off state current I_o	$\leq 10\mu\text{A}$
Residual current I	$\leq 15\text{mA}$
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Temperature drift	$\leq 20\%$
Protection class	IP65
Status indicator	no LED's
EMV-standard	according to EN 60947-5-2
Housing material	V2A
Front cap	Vectra®



Selection chart

Article number	Designation	Mounting	Max. switching frequency	Switching distance in mm	Termination cable	Temp. range	Drawing (following page)
08310001715	KJ2-M8EB60-DPS-HT140-X0240	shielded	600Hz	2	2m Teflon	140	A
08310000959	KJ2-M8EB60-DPS-HT140-X0202	shielded	600Hz	2	2m Silicone	140	A
08310002500	KJ3-M12EB60-DPS-HT150-X0240	shielded	500Hz	3	2m Teflon	150	B
08310000812	KJ3-M12EB60-DPS-HT150-X0202	shielded	500Hz	3	2m Silicone	150	B
08310002501	KJ4-M12EN60-DPS-HT150-X0240	non shielded	500Hz	4	2m Teflon	150	C
08310002502	KJ4-M12EN60-DPS-HT150-X0202	non shielded	500Hz	4	2m Silicone	150	C
08310002503	KJ5-M18EB70-DPS-HT180-X0240	shielded	400Hz	5	2m Teflon	180	D
08310001716	KJ5-M18EB70-DPS-HT180-X0202	shielded	400Hz	5	2m Silicone	180	D
08310002504	KJ8-M18EN80-DPS-HT180-X0240	non shielded	400Hz	8	2m Teflon	180	E
08310001737	KJ8-M18EN80-DPS-HT180-X0202	non shielded	400Hz	8	2m Silicone	180	E
08310001728	KJ10-M30EB70-DPS-HT180-X0240	shielded	200Hz	10	2m Teflon	180	F
08310002505	KJ10-M30EB70-DPS-HT180-X0202	shielded	200Hz	10	2m Silicone	180	F
08310002506	KJ15-M30EN80-DPS-HT180-X0240	non shielded	200Hz	15	2m Teflon	180	G
08310000920	KJ15-M30EN80-DPS-HT180-X0202	non shielded	200Hz	15	2m Silicone	180	G

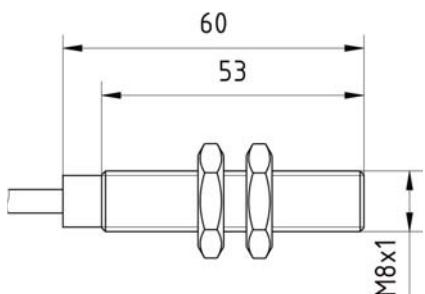


SPECIALS

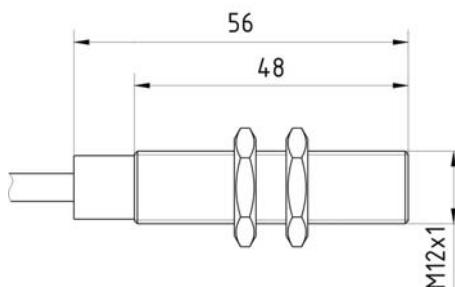
HIGH-TEMPERATURE RESISTANT SENSORS

Dimension

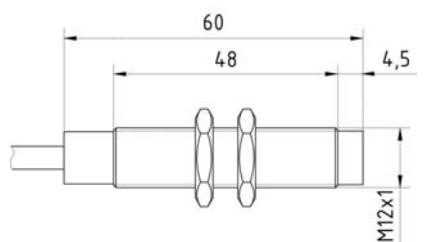
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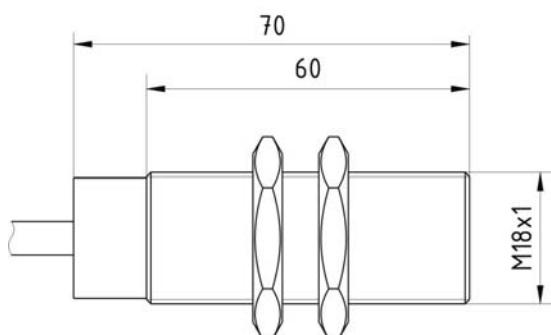
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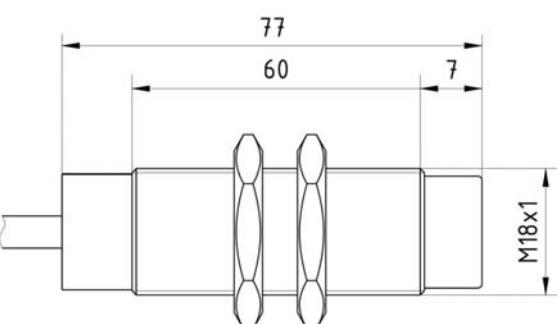
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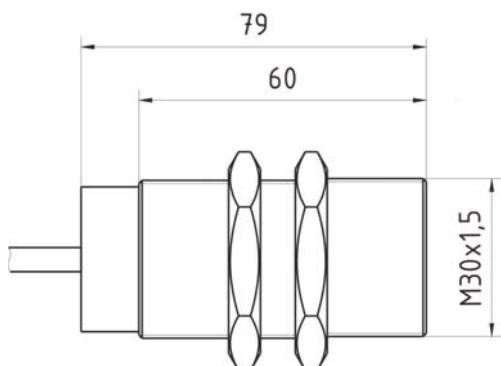
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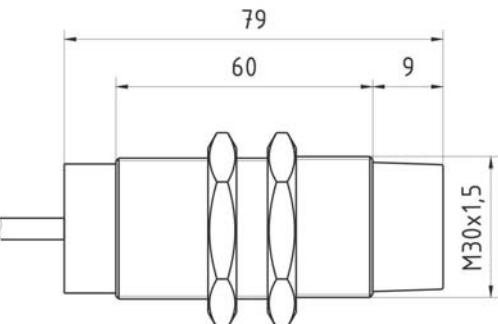
E)



F)



G)



alle Angaben in mm



SPECIALS

ACOUSTIC SENSOR

Technical data

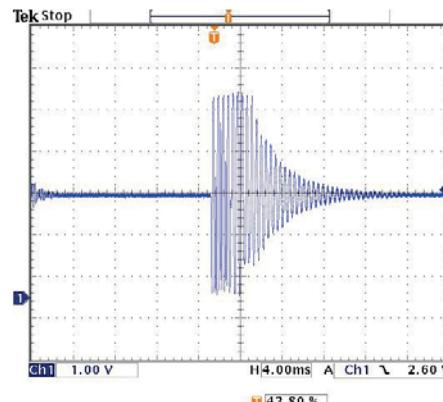
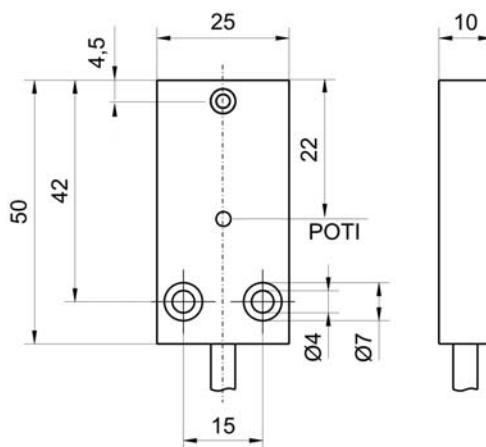
The acoustic sensor detects defined static noise or switch-sounds on machines, devices and plants. Due to protection class IP67, an enlarged operating temperature up to 85°C and an adjustable switching threshold this sensor even is proper for external applications.

Article number	Designation
08340001010	KA1-Q25KB-DPÖ



Mounting	non shielded
Operating voltage U_b	10 - 30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Output function	PNP N.C.
Response time at output function	120ms
Max. load current I_e	$\leq 16mA$
Off-state current I_o	$\leq 10mA$
Switch sensitivity	adjustable
Fluctuation stress	attenuated against impact sound
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Operating temperature T_a	-25°C ... +85°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Housing material	plastic PA 6.6
Termination	2m cable PVC 3 x 0,34mm ² (other cable lengths as requested)

Dimensions



typical amplitude

all data in mm



SPECIALS

OPTICAL RINGS

Technical data

Optoelectronic ring sensors help to control the material flow within the transparent tube. Furthermore, the device has the same proven features like the adaptation to optical characteristics of the material feed, adjustable switch shafts as well as dynamic or static output functions. Ring sensors of Pulsotronic operate at temperatures from 0°C till +60°C. The housing material is plastic.

A number of light barriers create a light curtain within the ring and the interruption of the light ray results in a transformation within the integrated amplifier and thereby leads to a switching signal.

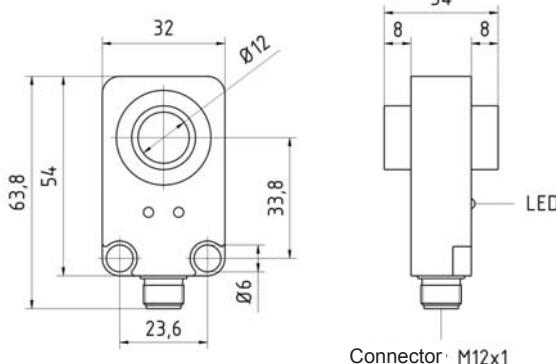


Illumination	IR 880 nm
Output	PNP
Switching output	NO
Operating voltage U_b	10 - 30 VDC
Max. load current I_e	200 mA
Acquisition frequency	10 Hz (by impulse-pause ratio 1:1)
Pulse stretching	ca. 50 ms fixed setting
Response time	0,05 ms
Counting pulse	dynamic (< 0,425 s)
Causing clogging	static (> 0,425 s)
Operating temperature T_a	0 ... +60°C
Connection	Connector M12, 4-pole
Adjustment of the sensibility	Optimum value through teachen (Compensation feed tube)
Status indicator	IP 64
Housing material	Plastic

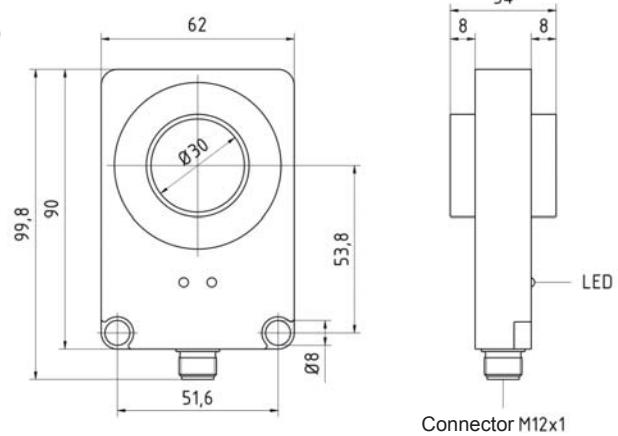
Selection chart

Article-number	Designation	Tube	No-load current	Dynamic control device	Dynamic responsivity	Drawing
08363000500	KOER-D12KB-DPS-V2-IR	12mm	< 50mA	adjustable over Potenziometer		A
08363000600	KOER-D30KB-DPS-V2-IR	30mm	< 20mA		fixed setting	B

A)



B)





SPECIALS

OVERSPEED MONITOR

General data

Overspeed monitors limit electronically rotor- or gearbox speed upwards and downwards. Sensor-specific they either change the speed limiting via potentiometer or electronically via microcontroller. Delay-times or hysteresis values can be taught-in.



The drawings for this sensors are shown on the following page.

	SJ10-M30...	KJ5-M18...	KJ15-Q40...
Mounting	shielded	shielded	shielded
Operating voltage U_b	10 - 30V DC	10 - 36V DC	10 - 30V DC
Ripple voltage of U_b	$\leq 10\%$	$\leq 10\%$	$\leq 10\%$
Max. load current I_e	200mA	200mA	≤ 400 mA
Off-state current I_o	≤ 30 mA	≤ 30 mA	≤ 30 mA
Residual current I_r	$\leq 10\mu A$	$\leq 10\mu A$	$\leq 10\mu A$
Response time (adjustable)	0,5 ... 10sec.	-	0,5 ... 10sec.
Hysteresis H	$\leq 15\%$	0,0% ... 25,5% (teachable)	$\leq 20\%$
Repeatability R	1,0%	1,0%	$\leq 5\%$
Operating temperature T_a	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature drift	$\leq 10\%$	$\leq 10\%$	$\leq 10\%$
Status indicator	IP67	IP67	IP67
Housing material	LED yellow	LED yellow	LED yellow
Front cap	brass, nickel-plated PBT	brass, nickel-plated PA 6.6	PBT

Selection chart

Article-number	Designation	Output function	Speed range rpm	Switching distance in mm	Termination	Dra-wing
08343301010	SJ10-M30MB80-DPSI	PNP $\overline{\underline{—}}$	120 - 3000	10	2m cable PVC 3 x 0,5mm ²	B
08343301020	SJ10-M30MB80-DPOI	PNP $\overline{\underline{—}}\underline{—}$	120 - 3000	10	2m cable PVC 3 x 0,5mm ²	B
08310001089	KJ5-M18MB80-DPI-X0130	PNP $\overline{\underline{—}}$	1 - 50000	4	2m cable PVC 4 x 0,34mm ²	A
08317634300	KJ15-Q40KB-DPI	PNP $\overline{\underline{—}}$	100 - 3000	15	Clamps up to 2,5mm ²	D

Other cable lengths at request

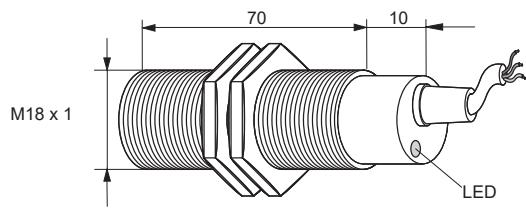


SPECIALS

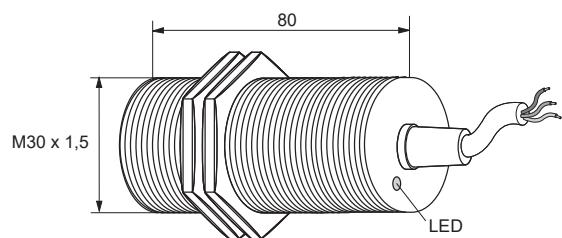
OVERSPEED MONITOR

Dimensions

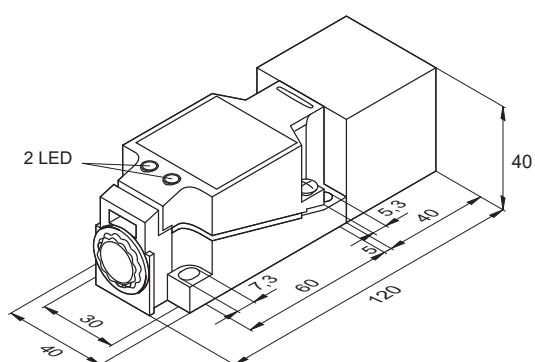
A)



B)



D)



all data in mm

pulsotronic

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subject to
modifications!



SPECIALS

METAL FACE SENSORS

General data

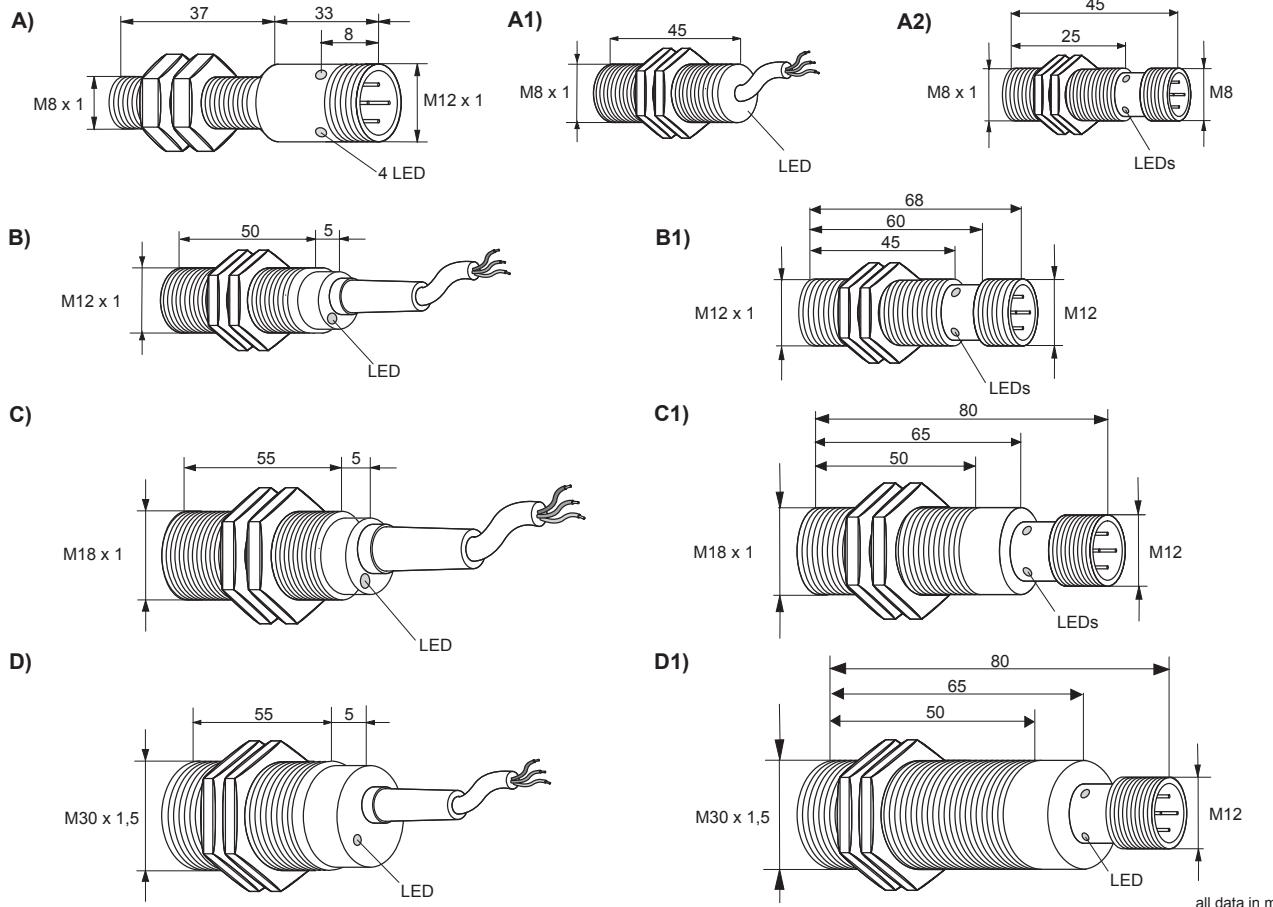
Due to their stainless steel housing metal face sensors are ideal for applications in aggressive media, oils or acids, and in alkaline fluids. The sensor field permeates the stainless steel sensor front and detects ferrous metals in standard switching distances.

Mounting	shielded
Operating voltage U_b	$\leq 10 - 30V$ DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1,5V$
Max. load current I_e	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
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 IEC 60947-5-2
Status indicator	LED
Housing material	stainless steel



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

Dimensions





SPECIALS

METAL FACE SENSORS

Selection chart

Article number	Designation M8 switching distance 1mm	Output function	Max. switching frequency	Termination	Drawing (previous page)
08310001712	SJD1-M8EB70-DPS-V2	PNP 	2000Hz	connector M12 - 4-pole	A
	Designation M8 switching distance 2mm				
08310001738	SJD2-M8EB45-DPS	PNP 	2000Hz	2m cable 3x0,14	A1
08310001739	SJD2-M8EB45-DPS-V1	PNP 	2000Hz	connector M8 3-pole	A1
	Designation M12 switching distance 2mm				
08313121210	SJD2-M12EB50-DPS	PNP 	2000Hz	2m cable PVC 3 x 0,34mm ²	B
08313121220	SJD2-M12EB50-DPÖ	PNP 	2000Hz	2m cable PVC 3 x 0,34mm ²	B
08313121230	SJD2-M12EB50-DNS	NPN 	2000Hz	2m cable PVC 3 x 0,34mm ²	B
08313121240	SJD2-M12EB50-DNÖ	NPN 	2000Hz	2m cable PVC 3 x 0,34mm ²	B
08313121211	SJD2-M12EB68-DPS-V2	PNP 	2000Hz	connector M12 4-pole	B1
08313121221	SJD2-M12EB68-DPÖ-V2	PNP 	2000Hz	connector M12 4-pole	B1
08313121231	SJD2-M12EB68-DNS-V2	NPN 	2000Hz	connector M12 4-pole	B1
08313121241	SJD2-M12EB68-DNÖ-V2	NPN 	2000Hz	connector M12 4-pole	B1
	Designation M18 switching distance 5mm				
08313181510	SJD5-M18EB55-DPS	PNP 	1000Hz	2m cable PVC 3 x 0,34mm ²	C
08313181520	SJD5-M18EB55-DPÖ	PNP 	1000Hz	2m cable PVC 3 x 0,34mm ²	C
08313181530	SJD5-M18EB55-DNS	NPN 	1000Hz	2m cable PVC 3 x 0,34mm ²	C
08313181540	SJD5-M18EB55-DNÖ	NPN 	1000Hz	2m cable PVC 3 x 0,34mm ²	C
08313181511	SJD5-M18EB76-DPS-V2	PNP 	1000Hz	connector M12 4-pole	C1
08313181521	SJD5-M18EB76-DPÖ-V2	PNP 	1000Hz	connector M12 4-pole	C1
08313181531	SJD5-M18EB76-DNS-V2	NPN 	1000Hz	connector M12 4-pole	C1
08313181541	SJD5-M18EB76-DNÖ-V2	NPN 	1000Hz	connector M12 4-pole	C1
	Designation M30 switching distance 10mm				
08313301110	SJD10-M30EB55-DPS	PNP 	300Hz	2m cable PVC 3 x 0,5mm ²	D
08313301120	SJD10-M30EB55-DPÖ	PNP 	300Hz	2m cable PVC 3 x 0,5mm ²	D
08313301130	SJD10-M30EB55-DNS	NPN 	300Hz	2m cable PVC 3 x 0,5mm ²	D
08313301140	SJD10-M30EB55-DNÖ	NPN 	300Hz	2m cable PVC 3 x 0,5mm ²	D
08313301111	SJD10-M30EB80-DPS-V2	PNP 	300Hz	connector M12 4-pole	D1
08313301121	SJD10-M30EB80-DPÖ-V2	PNP 	300Hz	connector M12 4-pole	D1
08313301131	SJD10-M30EB80-DNS-V2	NPN 	300Hz	connector M12 4-pole	D1
08313301141	SJD10-M30EB80-DNÖ-V2	NPN 	300Hz	connector M12 4-pole	D1

Other cable lengths as requested.



SPECIALS

TEMPERATURE-RESISTANT SENSORS

General data

Sensors for applications that require an enlarged operating temperature range from -40°C ... 100°C. Customized sensors for temperature ranges beyond 100°C as requested.

Operating voltage U_b	10-30V DC
Ripple voltage of U_b	≤ 10%
Voltage drop U_d	≤ 2,4V
Output function	PNP- or NPN N.O.
Max. load current I_e	200mA
Off-state current I_o	≤ 10µA
Residual current I_r	≤ 10mA
Hysteresis H	≤ 15%
Repeatability R	≤ 10%
Operating temperature T_a	-40°C ... +100°
Temperature drift	≤ 10%
Protection class	IP67
Status indicator	LED yellow
EMV-standard	according to EN 60947-5-2
Housing material	brass, nickel-plated
Front cap	PCP



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

Selection chart

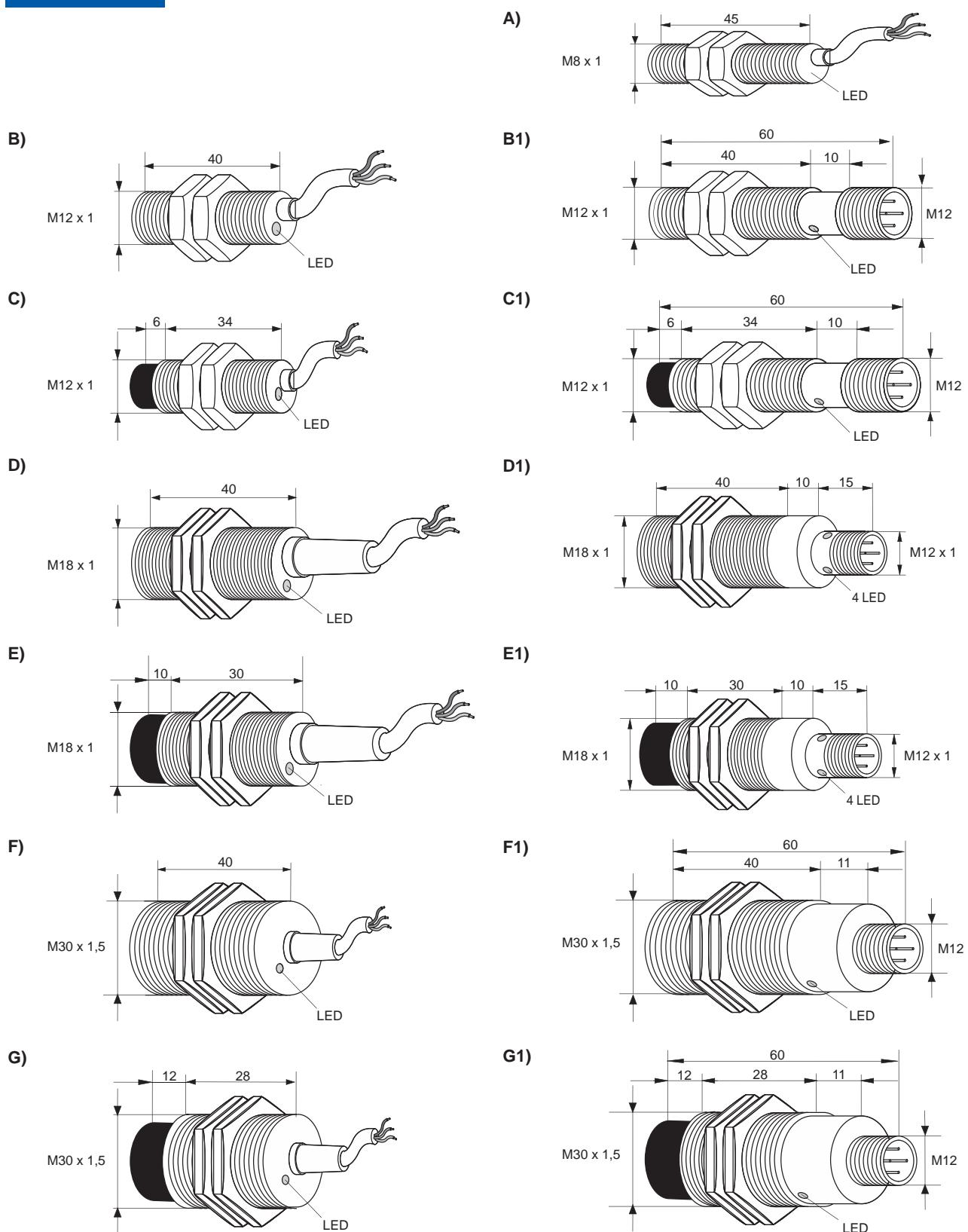
Article number	Designation	Mounting	Max. switching frequency	Switching distance in mm	Termination	Drawing (following page)
08317616010	KJ1,5-M8MB45-DPS-T	shielded	2000Hz	1,5	2m cable PVC 3 x 0,14	A
08317626010	KJ2-M12MB40-DPS-T	shielded	1000Hz	2	2m cable PUR 3 x 0,34	B
08317626065	KJ2-M12MB60-DPS-V2-T	shielded	1000Hz	2	connector M12 4-pole	B1
08317626110	KJ4-M12MN40-DPS-T	non shielded	1000Hz	4	2m cable PUR 3 x 0,34	C
08317626165	KJ4-M12MN60-DPS-V2-T	non shielded	1000Hz	4	connector M12 4-pole	C1
08317646010	KJ5-M18MB40-DPS-T	shielded	1000Hz	5	2m cable PUR 3 x 0,34	D
08317646065	KJ5-M18MB60-DPS-V2-T	shielded	1000Hz	5	connector M12 4-pole	D1
08317646110	KJ8-M18MN40-DPS-T	non shielded	500Hz	8	2m cable PUR 3 x 0,34	E
08317646165	KJ8-M18MN60-DPS-V2-T	non shielded	500Hz	8	connector M12 4-pole	E1
08317666010	KJ10-M30MB40-DPS-T	shielded	500Hz	10	2m cable PUR 3 x 0,34	F
08317666065	KJ10-M30MB60-DPS-V2-T	shielded	500Hz	10	connector M12 4-pole	F1
08317666110	KJ15-M30MN40-DPS-T	non shielded	300Hz	15	2m cable PUR 3 x 0,34	G
08317666165	KJ15-M30MN60-DPS-V2-T	non shielded	300Hz	15	connector M12 4-pole	G1



SPECIALS

HIGHTEMPERATURE-RESISTANT SENSORS

Dimensions



all data in mm



SPECIALS

WELD FIELD IMMUNE SENSORS

General data

By reason of the special protection of the sensor electronics weld field immune sensors are used on or close to welding machines. The housing is teflon-coated and protects against welding beats and spark erosion.

Operating Voltage U_b	10-30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4V$
Output function	PNP N.O.
Max. load current I_e	200mA
Off-state current I_o	$\leq 10\text{mA}$
Residual current I_r	$\leq 10\mu\text{A}$
Max. switching frequency	15Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Operating temperature T_a	-25°C ... +75°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Status indicator	LED yellow
Housing material	shielded: brass, teflon-coated non shielded: brass, nickel-plated
Front cap	shielded: teflon non shielded: PCP



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

Selection chart

Article number	Designation	Mounting	Switching distance in mm	Termination	Drawing (following page)
08317625840	KJ2-M12MB50-DPS-SF	shielded	2	2m cable PVC 3 x 0,34mm ²	A
08317625845	KJ2-M12MB70-DPS-V2-SF	shielded	2	connector M12 4-pole	A1
08317625900	KJ4-M12MN50-DPS-SF	non shielded	4	2m cable PVC 3 x 0,34mm ²	B
08317625965	KJ4-M12MN70-DPS-V2-SF	non shielded	4	connector M12 4-pole	B1
08317645840	KJ5-M18MB60-DPS-SF	shielded	5	2m cable PVC 3 x 0,34mm ²	C
08317645845	KJ5-M18MB80-DPS-V2-SF	shielded	5	connector M12 4-pole	C1
08317645900	KJ8-M18MN60-DPS-SF	non shielded	8	2m cable PVC3 x 0,34mm ²	D
08317645945	KJ8-M18MN80-DPS-V2-SF	non shielded	8	connector M12 4-pole	D1
08317665840	KJ10-M30MB60-DPS-SF	shielded	10	2m cable PVC 3 x 0,34mm ²	E
08317665845	KJ10-M30MB80-DPS-V2-SF	shielded	10	connector M12 4-pole	E1
08317665940	KJ15-M30MN60-DPS-SF	non shielded	15	2m cable PVC 3 x 0,34mm ²	F
08317665965	KJ15-M30MN80-DPS-V2-SF	non shielded	15	connector M12 4-pole	F1

Other cable lengths as requested.

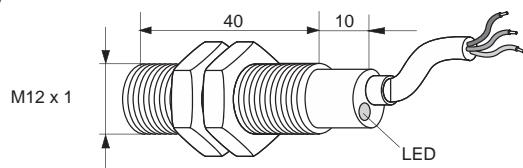


SPECIALS

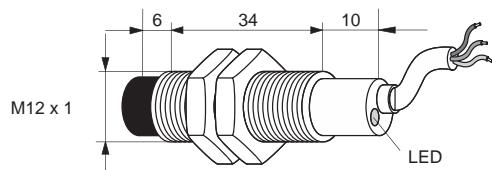
WELD FIELD IMMUNE SENSORS

Dimensions

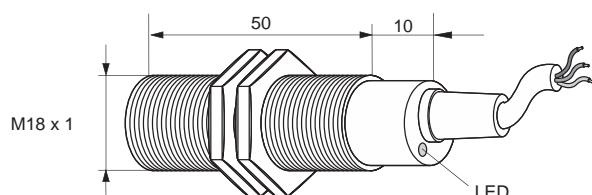
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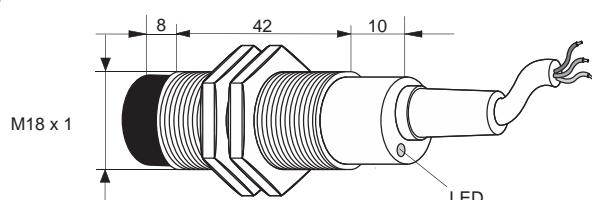
B)



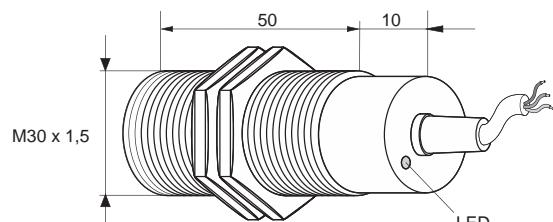
C)



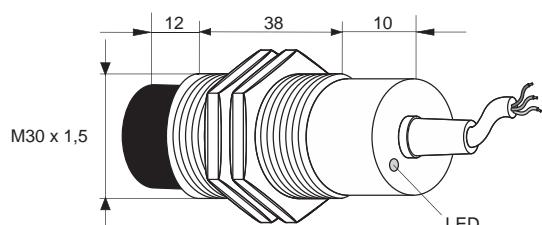
D)



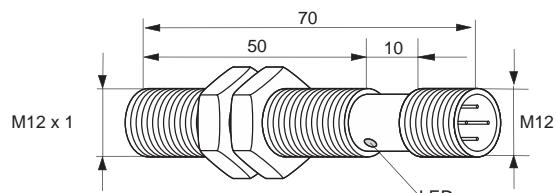
E)



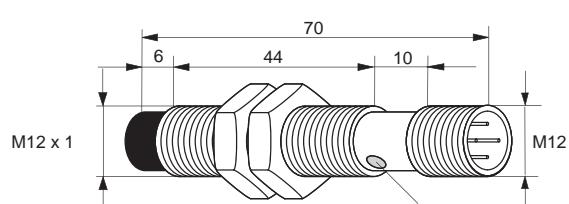
F)



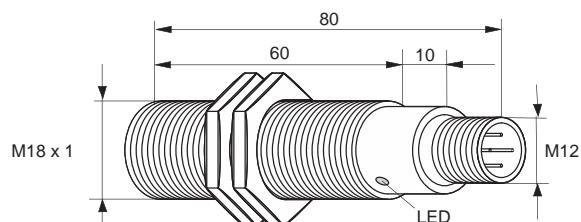
A1)



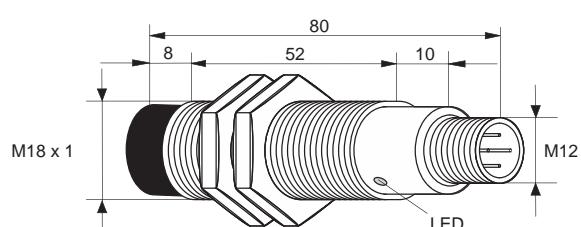
B1)



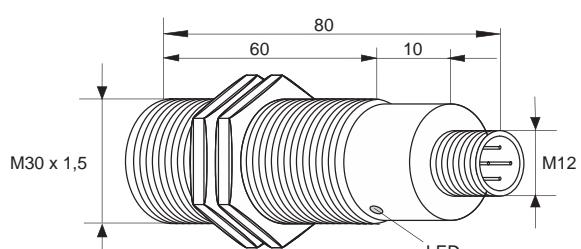
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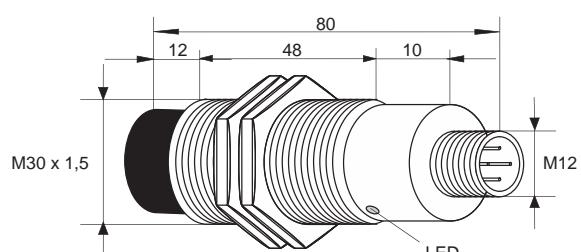
D1)



E1)



F1)



all data in mm

**SPECIALS**

QUAD SENSOR

Technical data

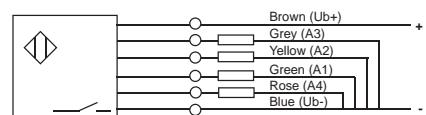
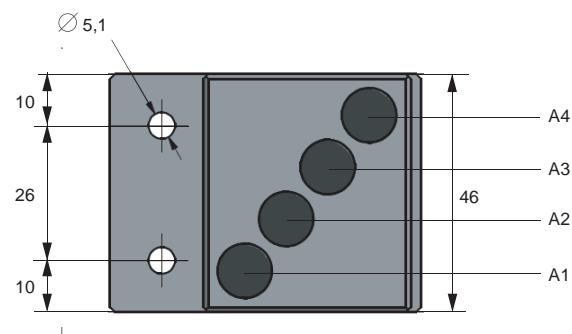
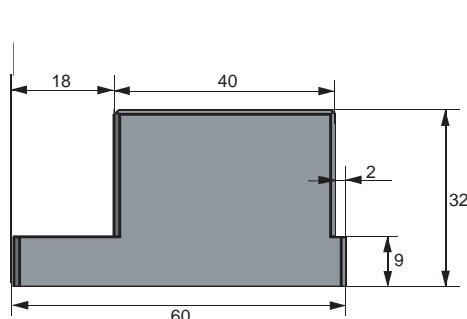
The quad sensor is equipped with four active sensor faces. By coordinated heterodyne frequencies the sensor head detects four targets situated side by side without any interference.

Article number	Designation
08310001877	KJ3-Q40AB-DPS



Mounting	shielded
Operating voltage U_b	10-30V DC
Ripple voltage of U_b	$\leq 10\%$
Voltage drop U_d	$\leq 2,4\text{V}$ per output
Output function	4 x PNP N.O.
Max. load current I_e	$\leq 200\text{mA}$ per output
Off-state current I_o	$\leq 10\text{mA}$ per output
Residual current I_r	$\leq 10\mu\text{A}$ per output
Max. switching frequency	1500Hz
Switching distance	3mm
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 10\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Housing material	aluminium, eloxed
Front cap	PA 6.6
Termination	2m cable PVC 6 x 0,14mm ² screened (other cable lengths as requested)

Dimensions, circuit diagram



all data in mm



SPECIALS

HALL EFFECT SENSORS

Technical data

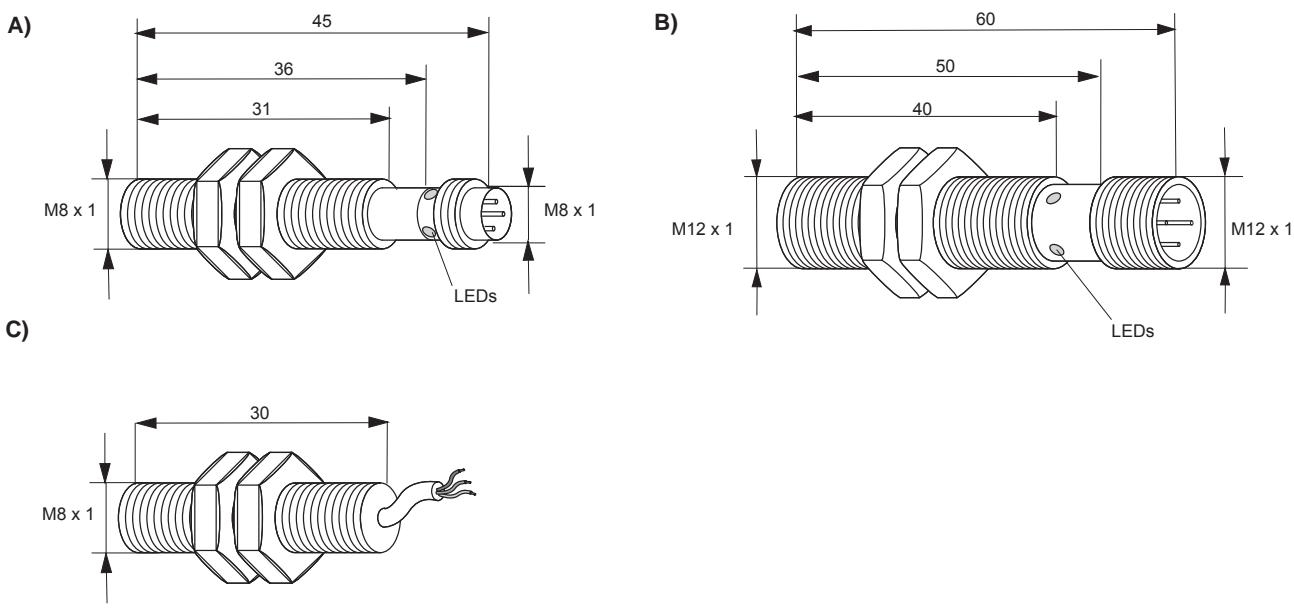
Sensors with hall elements detect magnetic targets for monitoring rotational speed or directions. Hall effect sensors from Pulsotronic detect permanent magnets as well as polarised tapes in extremely fast applications.

Article number	Designation	Drawing
08330000065	KH1-M8EB45-DPO-V1	A
08330000070	KHD1-M12MB60-DPS-V2	B
08330000188	KH-M8EB30-DNS	C



	08330000065	08330000070	08330000188
Mounting	shielded	shielded	shielded
Operating voltage U_b	10-30V DC	10 - 35V DC	3,8 - 30V DC
Voltage drop U_d	$\leq 1,0\text{V}$	$\leq 2,4\text{V}$	$\leq 0,4\text{V}$
Max. load current I_e	200mA	200mA	20mA
Off-state current I_o	$\leq 20\text{mA}$	$\leq 20\text{mA}$	$\leq 10\text{mA}$
Switching distance (dynamic)	1,0mm +/-20% at 340 - 450mT	1,0mm at 25mT	depend on switching magnet
Output function	2 x PNP N.C. (south-/northpole)	PNP N.O.	NPN N.O.
Check low voltage switch gear and control	according to EN 60947-5-2	according to EN 60947-5-2	according to EN 60947-5-2
Operating temperature T_a	-40°C ... +80°C	-25°C ... +70°C	-40°C ... +90°C
Temperature drift	$\leq 20\%$	$\leq 20\%$	$\leq 20\%$
Protection class	IP67	IP67	IP67
Status indicator	yellow-red LED	yellow all around LED	any LED
Housing material	stainless steel 1.4305	M12x1x58, brass, nickel-plated	stainless steel 1.4305
Termination	connector M8 4-pole	connector M12 4-pole	2m cable PUR

Dimensions



all data in mm



PICK-UP-SENSORS

General data

Special sensor group for combination with tool safety device or control unit.

High-sensitive pick-up inductors record feeds on punching tools or control throw-offs of punchings.



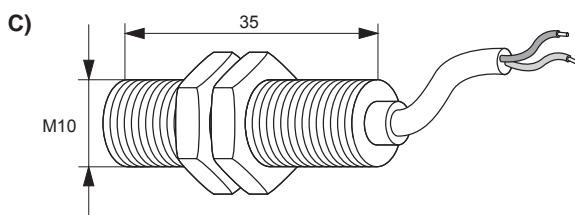
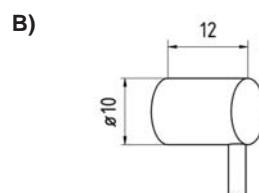
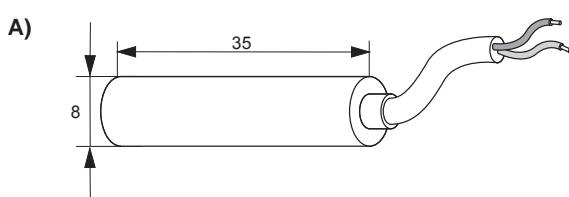
Mounting	shielded
Max. switching frequency	5000Hz
Repeatability R	$\leq 0,01\text{mm}$
Operating temperature T_a	-10°C ... +70°C
Protection class	IP67
Housing material	brass, nickel-plated
Front cap	PA 6.6
Requirement control unit	yes

Selection chart

Article number	Designation	Switching distance	Termination	Hysteresis H	Drawing
08317120000	KJ4-G8MB35	up to 4mm	2m coaxial cable	at S _n = 2,0 < 0,04mm	A
08317120100	KJ4-G8MB35-VK	up to 4mm	2m coaxial cable + connector	at S _n = 2,0 < 0,04mm	A
08317061000	KJ3-G10MB12	up to 3mm	2m coaxial cable	at S _n = 1,5 < 0,05mm	B
08317061100	KJ3-G10MB12-VK	up to 3mm	2m coaxial cable + connector	at S _n = 1,5 < 0,05mm	B
08317130000	KJ4-M10MB35	up to 4mm	2m coaxial cable	at S _n = 2,0 < 0,04mm	C
08317130100	KJ4-M10MB35-VK	up to 4mm	2m coaxial cable + connector	at S _n = 2,0 < 0,04mm	C

Other cable lengths as requested. Adequate control units you will find in our accessories catalogue.

Dimensions



all data in mm



SPECIALS

NOTES



SPECIALS

PRODUCT OVERVIEW

Product	Designation	Article number	Page
Inclination sensors	KN5-Q40KN-ANU-V2	08330000066	4
Inclination sensors	KN15-Q40KN-ANU-V2	08330000107	4
Inclination sensors	KN30-Q40KN-ANU-V2	08330000500	4
Inclination sensors	KN45-Q40KN-ANU-V2	08330000075	4
Inclination sensors	KN60-Q40KN-ANU-V2	08330000501	4
Inclination sensors	KN75-Q40KN-ANU-V2	08330000502	4
Inclination sensors	KN90-Q40KN-ANU-V2	08330000095	4
Inclination sensors	KN5-Q40KN-ANI-V2	08330000087	4
Inclination sensors	KN15-Q40KN-ANI-V2	08330000503	4
Inclination sensors	KN30-Q40KN-ANI-V2	08330000504	4
Inclination sensors	KN45-Q40KN-ANI-V2	08330000067	4
Inclination sensors	KN60-Q40KN-ANI-V2	08330000080	4
Inclination sensors	KN75-Q40KN-ANI-V2	08330000505	4
Inclination sensors	KN90-Q40KN-ANI-V2	08330000076	4
Acceleration sensors	KB...	0833...	5
Angle sensors	KW360-D42KN7-ANU5	08330001132	6
Angle sensors	KW360-D42KN7-ANU	08330001139	6
Angle sensors	KW360-D42KN7-ANI	08330001140	6
Angle sensors	KW360-D42KN7-ANI-X0392	08330001135	6
Angle sensors	KW360-D42KN15-CANO	08330001141	6
Angle sensors	KW360-Q25KN10-ANU5	08330001133	6
Angle sensors	KW360-Q25KN10-ANI	08330001136	6
Tube sensors	KJ16-Q16KN-DPS-V1	08310000903	7
Tube sensors	KJ10-Q16KN-DPS-V1-X1028	08310001526	7
Tube sensors	KJ10-Q16KN-DPS-V1	08310001105	7
Tube sensors	KJ16-Q16KN-DPS-X0337	08310001891	7
Inductive pressure-resistant	KJD2-M12EB50-DPS-V2/500/14,9	08310002400	8/9
Inductive pressure-resistant	KJD2-M12EB50-DPÖ-V2/500/14,9	08310002401	8/9
Inductive pressure-resistant	KJD2-M12EB50-DPS-V2/500/17,9	08310002402	8/9
Inductive pressure-resistant	KJD2-M12EB50-DPÖ-V2/500/17,9	08310002403	8/9
Inductive pressure-resistant	KJD2-M12EB56-DPS-V2/500/14,9	08310001749	8/9
Inductive pressure-resistant	KJD2-M12EB56-DPÖ-V2/500/14,9	08310002404	8/9
Inductive pressure-resistant	KJD2-M12EB56-DPS-V2/500/17,9	08310001746	8/9
Inductive pressure-resistant	KJD2-M12EB56-DPÖ-V2/500/17,9	08310002405	8/9
Inductive pressure-resistant	KJD2-M12EB69-DPS-V2/500/14,9	08310002406	8/9
Inductive pressure-resistant	KJD2-M12EB69-DPÖ-V2/500/14,9	08310002407	8/9
Inductive pressure-resistant	KJD2-M12EB69-DPS-V2/500/17,9	08310002408	8/9
Inductive pressure-resistant	KJD2-M12EB69-DPÖ-V2/500/17,9	08310002409	8/9
Inductive pressure-resistant	KJD2-M12EB78-DPS-V2/500/14,9	08310002410	8/9
Inductive pressure-resistant	KJD2-M12EB78-DPÖ-V2/500/14,9	08310002411	8/9
Inductive pressure-resistant	KJD2-M12EB78-DPS-V2/500/17,9	08310001781	8/9
Inductive pressure-resistant	KJD2-M12EB78-DPÖ-V2/500/17,9	08310002412	8/9
High temperature-resistant sensors	KJ2-M8EB60-DPS-HT140-X0240	08310001715	10/11
High temperature-resistant sensors	KJ2-M8EB60-DPS-HT140-X0202	08310000959	10/11
High temperature-resistant sensors	KJ3-M12EB60-DPS-HT150-X0240	08310002500	10/11
High temperature-resistant sensors	KJ3-M12EB60-DPS-HT150-X0202	08310000812	10/11
High temperature-resistant sensors	KJ4-M12EN60-DPS-HT150-X0240	08310002501	10/11
High temperature-resistant sensors	KJ4-M12EN60-DPS-HT150-X0202	08310002502	10/11
High temperature-resistant sensors	KJ5-M18EB70-DPS-HT180-X0240	08310002503	10/11
High temperature-resistant sensors	KJ5-M18EB70-DPS-HT180-X0202	08310001716	10/11
High temperature-resistant sensors	KJ8-M18EN80-DPS-HT180-X0240	08310002504	10/11
High temperature-resistant sensors	KJ8-M18EN80-DPS-HT180-X0202	08310001737	10/11
High temperature-resistant sensors	KJ10-M30EB70-DPS-HT180-X0240	08310001728	10/11
High temperature-resistant sensors	KJ10-M30EB70-DPS-HT180-X0202	08310002505	10/11
High temperature-resistant sensors	KJ15-M30EN80-DPS-HT180-X0240	08310002506	10/11
High temperature-resistant sensors	KJ15-M30EN80-DPS-HT180-X0202	08310000920	10/11



SPECIALS

Product overview

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Acoustic sensor	KA1-Q25KB-DPÖ	08340001010	12
Optical ring sensors	KOER-D12KB-DPS-V2-IR	08363000500	13
Optical ring sensors	KOER-D30KB-DPS-V2-IR	08363000600	13
Overspeed Monitor	SJ10-M30MB80-DPSI	08343301010	14/15
Overspeed Monitor	SJ10-M30MB80-DPÖI	08343301020	14/15
Overspeed Monitor	KJ5-M18MB80-DPI-X0130	08310001089	14/15
Overspeed Monitor	KJ15-Q40KB-DPI	08317634300	14/15
Metal Face Sensors	SJD1-M8EB70-DPS-V2	08310001712	16/17
Metal Face Sensors	SJD2-M8EB45-DPS	08310001738	16/17
Metal Face Sensors	SJD2-M8EB45-DPS-V1	08310001739	16/17
Metal Face Sensors	SJD2-M12EB50-DPS	08313121210	16/17
Metal Face Sensors	SJD2-M12EB50-DPÖ	08313121220	16/17
Metal Face Sensors	SJD2-M12EB50-DNS	08313121230	16/17
Metal Face Sensors	SJD2-M12EB50-DNÖ	08313121240	16/17
Metal Face Sensors	SJD2-M12EB68-DPS-V2	08313121211	16/17
Metal Face Sensors	SJD2-M12EB68-DPÖ-V2	08313121221	16/17
Metal Face Sensors	SJD2-M12EB68-DNS-V2	08313121231	16/17
Metal Face Sensors	SJD2-M12EB68-DNÖ-V2	08313121241	16/17
Metal Face Sensors	SJD5-M18EB55-DPS	08313181510	16/17
Metal Face Sensors	SJD5-M18EB55-DPÖ	08313181520	16/17
Metal Face Sensors	SJD5-M18EB55-DNS	08313181530	16/17
Metal Face Sensors	SJD5-M18EB55-DNÖ	08313181540	16/17
Metal Face Sensors	SJD5-M18EB80-DPS-V2	08313181511	16/17
Metal Face Sensors	SJD5-M18EB80-DPÖ-V2	08313181521	16/17
Metal Face Sensors	SJD5-M18EB80-DNS-V2	08313181531	16/17
Metal Face Sensors	SJD5-M18EB80-DNÖ-V2	08313181541	16/17
Metal Face Sensors	SJD10-M30EB55-DPS	08313301110	16/17
Metal Face Sensors	SJD10-M30EB55-DPÖ	08313301120	16/17
Metal Face Sensors	SJD10-M30EB55-DNS	08313301130	16/17
Metal Face Sensors	SJD10-M30EB55-DNÖ	08313301140	16/17
Metal Face Sensors	SJD10-M30EB55-DPS-V2	08313301111	16/17
Metal Face Sensors	SJD10-M30EB80-DPÖ-V2	08313301121	16/17
Metal Face Sensors	SJD10-M30EB80-DNS-V2	08313301131	16/17
Metal Face Sensors	SJD10-M30EB80-DNÖ-V2	08313301141	16/17
Temperature-resistant sensors	KJ1,5-M8MB45-DPS-T	08317616010	18/19
Temperature-resistant sensors	KJ2-M12MB40-DPS-T	08317626010	18/19
Temperature-resistant sensors	KJ2-M12MB65-DPS-V2-T	08317626065	18/19
Temperature-resistant sensors	KJ4-M12MN40-DPS-T	08317626110	18/19
Temperature-resistant sensors	KJ4-M12MN60-DPS-V2-T	08316626165	18/19
Temperature-resistant sensors	KJ5-M18MB40-DPS-T	08317646010	18/19
Temperature-resistant sensors	KJ5-M18MB60-DPS-V2-T	08317646065	18/19
Temperature-resistant sensors	KJ8-M18MN40-DPS-T	08317646110	18/19
Temperature-resistant sensors	KJ8-M18MN65-DPS-V2-T	08317646165	18/19
Temperature-resistant sensors	KJ10-M30MB40-DPS-T	08317666010	18/19
Temperature-resistant sensors	KJ10-M30MB60-DPS-V2-T	08317666065	18/19
Temperature-resistant sensors	KJ15-M30MN40-DPS-T	08317666110	18/19
Temperature-resistant sensors	KJ15-M30MN60-DPS-V2-T	08317666165	18/19



Product overview

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Weld field immune sensors	KJ2-M12MB50-DPS-SF	08317625840	20/21
Weld field immune sensors	KJ2-M12MB70-DPS-V2-SF	08317625845	20/21
Weld field immune sensors	KJ4-M12MN50-DPS-SF	08317625900	20/21
Weld field immune sensors	KJ4-M12MN70-DPS-V2-SF	08317625965	20/21
Weld field immune sensors	KJ5-M18MB60-DPS-SF	08317645840	20/21
Weld field immune sensors	KJ5-M18MB80-DPS-V2-SF	08317645845	20/21
Weld field immune sensors	KJ8-M18MN60-DPS-SF	08317645900	20/21
Weld field immune sensors	KJ8-M18MN80-DPS-V2-SF	08317645965	20/21
Weld field immune sensors	KJ10-M30MB60-DPS-SF	08317665840	20/21
Weld field immune sensors	KJ10-M30MB80-DPS-V2-SF	08317665845	20/21
Weld field immune sensors	KJ15-M30MN60-DPS-SF	08317665900	20/21
Weld field immune sensors	KJ15-M30MN80-DPS-V2-SF	08317665965	20/21
Quad sensor	KJ3-Q40AB-DPS	08310001877	22
Hall effect sensors	KH1-M8EB45-DPÖ-V1	08330000065	23
Hall effect sensors	KHD1-M12MB60-DPS-V2	08330000070	23
Hall effect sensors	KH-M8EB30-DNS	08330000188	23
PickUp-Sensors	KJ4-G8MB35	08317120000	24
PickUp-Sensors	KJ4-G8MB35-VK	08317120100	24
PickUp-Sensors	KJ3-G10MB12	08317061000	24
PickUp-Sensors	KJ3-G10MB12-VK	08317061100	24
PickUp-Sensors	KJ4-M10MB35	08317130000	24
PickUp-Sensors	KJ4-M10MB35-VK	08317130100	24
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