# **Technical Data** Inductive Proximity Switch



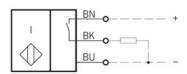
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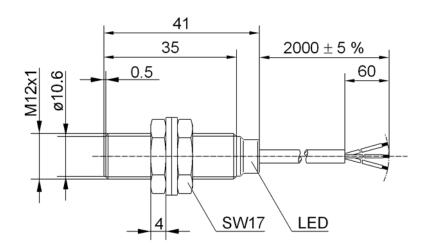
## Series M12

Description

KIB-M12PS/002-KL2V

Wiring Diagram





Article number

### Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	Sn	2 mm
Standard target		12 mm x 12 mm, t = 1 mm, Material: FE360
Effective operating distance	Sr	1,8 2,2 mm
Assured operating distance	Sa	0 1,6 mm
Switching element function		DC, N.O.
Repeat accuracy	R	≤ 5 %
Differential travel (hysteresis)	Н	≈ 10 %
Rated operational voltage	Ue	12 – 24 V DC
Operational voltage range	UB	10 – 36 V DC
Rated insulation voltage	Ui	75 V DC
Rated impulse withstand voltage	U <sub>imp</sub>	500 V
Voltage drop	Ud	≤ 1,5 V
Utilization category		DC 13
Rated operational current	l <sub>e</sub>	≤ 200 mA
Minimum operational current	l <sub>m</sub>	≤ 1 mA
Off-state current	l <sub>r</sub>	< 0,1 mA
No-load supply current	lo	≤ 11 mA
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	800 Hz
Rated supply frequency		DC
Mounting		flush
False polarity protection		yes
Time delay before availability	t <sub>v</sub>	≤ 50 ms
Electromagnetic compatibility (EMC)		
Electromagnetic field test		IEC 61000-4-3
Electrostatic discharge test		IEC 61000-4-2
Electrical fast transient immunity test (Burst)		IEC 61000-4-4
Radiated disturbance field strength		EN 55011

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#### Mechanical Data

Front cap Enclosure End cap Ambient air temperature Type of protection Pollution degree

Indication Termination type For attachment PA6.6, black Brass, nickel plated PA 12, transparent -25 °C ... +70 °C (cable fixed mounted) IP67 3 (Pollution of the active zone can cause impairments of the operating distances.) LED, yellow Cable 3 x 0,14 mm<sup>2</sup>; PVC – Outer jacket, black 2 x hexagon nut and 2 x toothed washer

### Product reliability (in acc. with DIN EN 61709 (SN 29500))

MTTF (at nominal load, 40 °C)

> 900 years

#### **EU Conformity**

acc. to directive 2004 / 108 / EC

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