

Technical Data

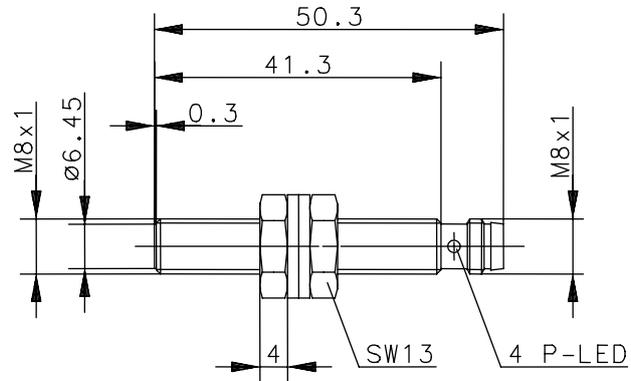
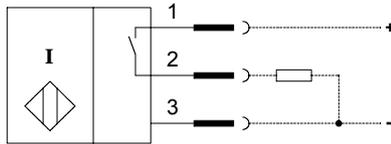
Inductive Proximity Switch

Series M8

Description **KIB-M08PS/1,5-KLSM8T**

Article number **6502942013**

Wiring Diagram



Identifying characteristics in accordance with EN 60947-5-2

Electrical data

Rated operating distance	S_n	1,5mm
Standard target		8 x 8mm, t=1mm; material: FE360
Effective operating distance	S_r	1,4 ... 1,7mm
Assured operating distance	S_a	0 ... 1,2mm
Switching element function		DC, N.O.
Repeat accuracy	R	≤ 5%
Differential travel (hysteresis)	H	≤ 0,2 x S_r
Bemessungsbetriebsspannung	U_e	12 – 24V DC
Operational voltage range	U_B	10 – 36V DC
Rated insulation voltage	U_i	75V DC
Rated impulse withstand voltage	U_{imp}	500V
Voltage drop	U_d	≤ 2V
Utilization category		DC 13
Rated operational current	I_e	See page 2, characteristic curve
Minimum operational current	I_m	≤ 1mA
Off-state current	I_r	< 0,3mA
No-load supply current	I_o	≤ 23mA
Rated conditional short-circuit current		100A
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	1000Hz
Rated supply frequency		DC
Mounting		flush
False polarity protection		yes
Time delay before availability	t_v	< 50ms

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Date of issue: 02.05.2007 / Page 1 of 2
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Electromagnetic compatibility (EMC)

Electromagnetic field test	IEC 61000-4-3
Electrostatic discharge test	IEC 61000-4-2
Electrical fast transient immunity test	IEC 61000-4-4
Radiated disturbance field strength	EN 55011

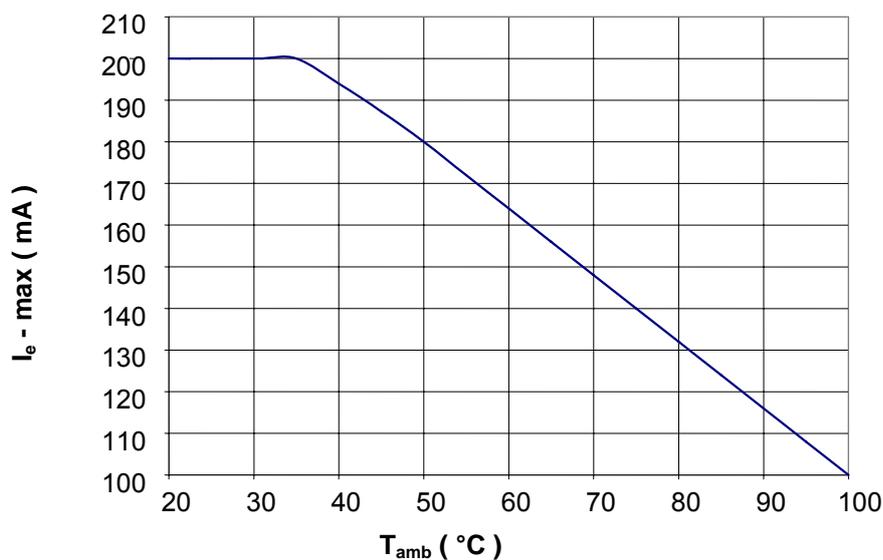
Mechanical Data

Front cap	PA 6, black
Enclosure	stainless steel (Niro 1.4305)
Ambient air temperature	-40°C ... +100°C (Plug socket: -25°C ... +90°C)
Type of protection	IP67 (only in fully locked position with it.s plugs)
Pollution degree	3 (Pollution of the active zone can cause impairments of the operating distances.)
Indication	LED, yellow
Termination type	Plug socket
For attachment	2 x hexagon nut an (tightening torque: 8 Nm), 2 x toothed washer

EU Conformity



Characteristic curve $I_e \text{ max.} - T_{\text{amb.}}$



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