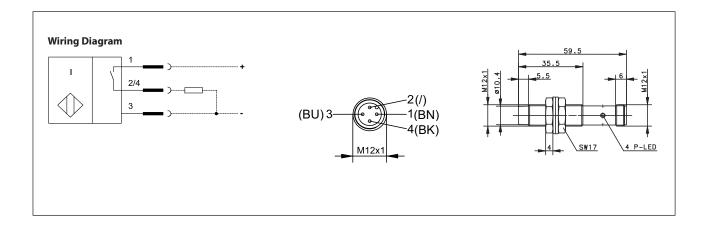


Inductive Proximity Switch

Series M12

Description KIN-M12PS/004-KLS12 Article number 6932944001



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S _n	4 mm
Standard target		12 mm x 12 mm, t = 1 mm, material: FE360
Real sensing distance	S_r	3,6 4,4 mm
Assured operating distance	S _a	0 3,2 mm
Switching element function		DC, N.O.
Repeat accuracy	R	≤5%
Differential travel (hysteresis)	Н	≈ 10 %
Operational voltage range	U _B	10 - 36 V DC
Rated insulation voltage	U _i	75 V DC
Rated impulse withstand voltage	U_{imp}	500 V
Voltage drop	U _d	≤ 1,5 V
Utilization category		DC 12
Rated operational current	I,	200 mA
Minimum operating current	I _m	1 mA
Off–state current	I,	< 0,3 mA
No-load supply current	I,	< 11 mA
Switching element	Ū	Permanent overload and s.c.p.
Short–circuit protection		pulsed
Frequency of operating cycles	f	400 Hz
Mounting		non flush
False polarity protection		yes
Time delay before availability	t _v	< 50 ms

Technical Data



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 6.6, black	
Enclosure	Brass, nickel plated	
Ambient air temperature	-25 °C +70 °C	
Type of protection	IP67	
Degree of pollution	3 (pollution of the active region, there can may be a deterioration of	
	the operating distance)	
Termination type	Male plug M12x1, PA	
For attachment	2 x hexagon nut and 2 x toothed washer	

Product reliability (in acc. with DIN EN 61709 (SN 29500))		
MTTF (at 40 °C)	> 900 years	

EU Conformity	
acc. to directive 2004 / 108 / EC	