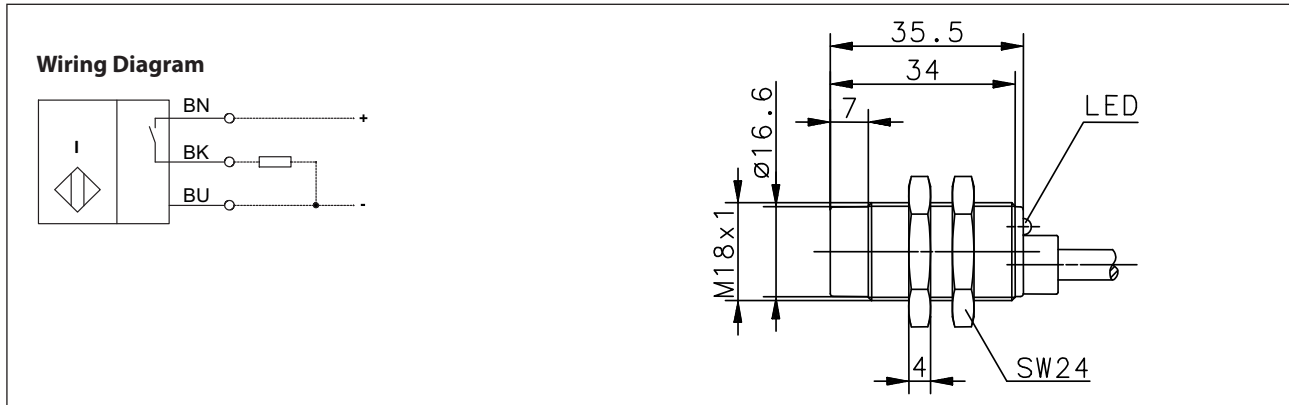


Inductive Proximity Switch Series M18

Description **KIN-M18PS/012-KL6VE**

Article number **6502906020**



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S_n	12 mm
Standard target		36 mm x 36 mm, t=1 mm; material: FE
Effective operating distance	S_r	10,8 ... 13,2 mm
Assured operating distance	S_a	0 ... 9,7 mm
Switching element function		N.O.
Repeat accuracy	R	≤ 5 %
Differential travel (hysteresis)	H	≈ 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 13
Rated operational current	I_e	200 mA at 20 °C
Minimum operational current	I_m	1 mA
Off-state current	I_r	< 0,1 mA
No-load supply current	I_o	< 11 mA
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	200 Hz
Mounting		non flush
False polarity protection		yes
Time delay before availability	t_v	< 50 ms

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
Endcap	PA 12, black
Ambient air temperature	-25 °C ... +70 °C
Type of protection	IP67
Pollution degree	3 (Pollution of the active zone can cause impairments of the operating distances.)
Indication	Output LED yellow
Termination type	Cable 3 x 0,5 mm ² x 6 m, PVC - Outer jacket, black
For attachment	2 x hexagon nut, brass, nickel plated (tightening torque ≤ 25 Nm)

Product reliability (in acc. with DIN EN 61709 (SN 29500))	
MTTF (at 40 °C)	> 800 years

EU Conformity	
	acc. to directive 2014/30/EU (EMC-Directive)