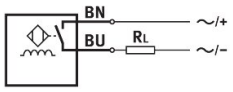
Proximity sensor
SIED-M18NB-ZS-K-L-PA

Part number: 538337





Data sheet

Feature	Value
Design	Round
Conforms to standard	EN 60947-5-2
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Low Voltage Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions To UK regulations for electrical equipment
Measuring principle	Inductive
Rated operating distance	8 mm
Assured operating distance	6.48 mm
Reduction factors	Aluminium = 0.35 - 0.5 Stainless steel St 18/8 = 0.6 - 1.0 Copper = 0.25 - 0.45 Brass = 0.35 - 0.5 Steel St 37 = 1.0
Ambient temperature	-25 °C...70 °C
Repetition accuracy	0.16 mm
Switching output	Non-contacting, 2-wire
Switching element function	N/O contact
Hysteresis	0.24 mm...1.2 mm
Max. switching frequency DC	20 Hz
Max. switching frequency AC	20 Hz
Max. output current	300 mA
Voltage drop	6 V
Min. load current	3 mA
Short circuit current rating	no
Operational voltage range AC	20 V...250 V
Operational voltage range DC	10 V...300 V
Mains frequency	50 Hz...60 Hz
No-load supply current	1.5 mA
Reverse polarity protection	For all electrical connections

Feature	Value
Electrical connection	2-wire Cable
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	2
Cable length	2.5 m
Material cable sheath	PVC
Material insulating sheath	PVC
Size	M18
Type of mounting	Via lock nut
Tightening torque	2 Nm
Mounting type	Not flush
Product weight	123 g
Material housing	PA-reinforced
Switching status indication	Yellow LED
Ambient temperature with moving cable	0 °C...70 °C
Degree of protection	IP65 IP67
Corrosion resistance class CRC	4 - Very high corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Additional information for sensor selection	For DC and AC voltage
Electrical output	Non-contacting, 2-wire
Selection of sensor design	Polyamide housing