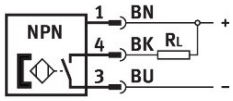
Proximity sensor
SMTO-8E-NS-M12-LED-24

Part number: 171176





Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS-compliant
Instructions on use	Support / actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magneto-resistive
Ambient temperature	-20 °C...60 °C
Repetition accuracy	0.2 mm
Switching output	NPN
Switching element function	N/O contact
Switch-on time	1.3 ms
Switch-off time	7.3 ms
Max. switching frequency	130 Hz
Max. output current	100 mA
Max. switching capacity DC	2.8 W
Voltage drop	1.8 V
Inductive protective circuit	Adapted to MZ, MY, ME coils
Off-state current	0.15 mA
Short circuit current rating	yes
Overload protection	Yes
Operational voltage range DC	10 V...30 V
Residual ripple	10 %
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	3

Feature	Value
Electrical connection 1, type of mounting	Screw-type lock Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable screw-type lock
Connection outlet orientation	Lateral
Material electrical contact	Gold-plated brass
Max. tightening torque connector	0.5 Nm
Type of mounting	Clamped in T-slot With accessories Insertable in the slot from above
Tightening torque	0.5 Nm
Mounting position	optional
Product weight	12 g
Housing colour	Black
Material housing	Wrought aluminium alloy TPE-U(PU) High-alloy stainless steel
Switching status indication	Yellow LED
Degree of protection	IP65 IP67
LABS (PWIS) conformity	VDMA24364-B2-L