

Proximity sensor SMT0-8E-NS-S-LED-24

Part number: 171166

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Design	for T-slot
Based on norm	EN 60947-5-2
Symbol	00991150
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Note on materials	RoHS-compliant
Application note	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
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 and ME coils
Residual current	≤0.15 mA
Short-circuit protection	yes
Overload protection	Yes
DC operating voltage range	10 V ... 30 V
Residual ripple	10 %
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	not rotatable
Electrical connection 1, type of mounting	Compatible with snap-locking Compatible with rotatable screw-type lock
Electrical connection for input 1, connection pattern	00991155
Connection outlet orientation	Transverse

Feature	Value
Material of pin contacts	Brass, gold-plated
Material of screw-type lock	Brass, nickel-plated
Max. tightening torque plug	0.3 Nm
Type of mounting	Clamped in T slot With accessories Can be inserted in slot from above
Tightening torque	1 Nm
Mounting position	Any
Product weight	12 g
Housing colour	Black
Housing material	TPE-U(PU)
Switching status indication	LED yellow
Degree of protection	IP65 IP67
LABS (PWIS) conformity	VDMA24364-B2-L