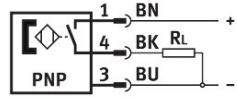


# Proximity sensor

## SMTO-8E-PS-S-LED-24

FESTO

Part number: 171178



[PDF](#) General operating condition

## Data sheet

Feature	Value
Design	For T-slot
Based on standard	EN 60947-5-2
Symbol	00991153
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
CE 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	PNP
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	≤0.01 mA
Short circuit current rating	Pulsed
Overload protection	Available
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	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, connection pattern	00991155
Connection outlet orientation	Lateral
Material electrical contact	Gold-plated brass
Max. tightening torque connector	0.3 Nm

Feature	Value
Type of mounting	Clamped in T-slot With accessories Insertable in the slot from above
Tightening torque	1 Nm
Mounting position	optional
Product weight	12 g
Housing colour	Black
Material housing	Brass, nickel-plated TPE-U(PU)
Switching status indication	Yellow LED
Degree of protection	IP65 IP67
LABS (PWIS) conformity	VDMA24364-B2-L