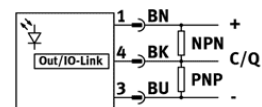


# distance sensor SOOE-MS-R-PNLK-T

Part number: 8075668

FESTO



## Data sheet

Feature	Value
Design	Block design
Conforms to standard	EN 60947-5-2
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing department	UL E232949
Materials note	Conforms to RoHS
Measuring principle	Optoelectronic
Measurement method	Distance sensor
Type of light	Red LED
Max. spot diameter	8 mm at a sensing range of 100 mm
Minimal object diameter	10 mm
Distance measuring range	40 ... 100 mm
Ambient temperature	10 ... 60 °C
Reference material	Standard white 90%, 100x100 mm
Travel resolution	0.1 mm
Repetition accuracy	0.5 mm
Temperature coefficient	0.03 %/K
Switch output	Push-pull
Switching element function	Switchable PNP, light switching NPN, dark switching
Max. switching frequency	135 Hz
Max. output current	100 mA
Voltage drop	0 ... 1.5 V
Linearity error, FS	0.75 %
Timer function	Via IO-Link®
Short circuit strength	Pulsing
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Process Data Variable (PDV) Identification diagnosis Teach channel Switching signal channel (SSC)
IO-Link, communication mode	COM2 (38,4 kBaud)
IO-Link, SIO mode support	Yes
IO-Link, port type	A
IO-Link, process data width OUT	2 bit
IO-Link, process data content OUT	1 bit (emitter disable) 1 bit (hold)

Feature	Value
IO-Link, process data width IN	3 Byte
IO-Link, process data content IN	1 bit (signal quality indicator) 16 bit PDV (distance) 2 bit SSC (switching signal)
IO-Link, minimum cycle time	3 ms
IO-Link, data memory required	2 Kilobyte
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
Idle current	25 mA
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M8x1, A-coded to EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw lock
Material electrical contact	Brass, gold-plated
Mounting type	With through-hole for M3 screw
Tightening torque	0.8 Nm
Assembly position	Any
Product weight	10 g
Material housing	PC PMMA
Ready status display	Green LED
Operating status display	Yellow LED
Setting options	IO-Link Potentiometer Teach-In
Protection class	IP65 IP67 IP69K
Insulation voltage	500 V
Surge strength	1 kV
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364 zone III
Degree of contamination	3