

diffuse sensor SOOE-BS-L-PNLK-T

Part number: 8075670

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
Detection method	Diffuse reflection sensor with background suppression
Type of light	Laser Red
Max. spot diameter	1 mm at a sensing range of 200 mm
Minimal object diameter	2 mm
Working range	7 ... 300 mm
Ambient temperature	-40 ... 60 °C
Max. black/white difference	45 %
Reference material	Standard white 90%, 100x100 mm
Switch output	Push-pull
Switching element function	Switchable PNP, light switching NPN, dark switching
Hysteresis	18 mm
Max. switching frequency	1,650 Hz
Max. output current	100 mA
Voltage drop	0 ... 1.5 V
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)
IO-Link, process data width IN	1 bit
IO-Link, process data content IN	1 bit SSC (switching signal)

Feature	Value
IO-Link, minimum cycle time	2,3 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
Setting range lower limit	25 mm
Upper limit of adjustment range	300 mm
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
Laser protection class	1
Degree of contamination	3