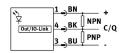
Diffuse scan SOOE-DS-R-PNLK-T Part number: 8075663

FESTO





General operating condition

Conforms to standard EN 60947-5-2 Symbol 009999956 RCM compliance mark cUL us - Usted (OL) CE marking (see declaration of conformity) As per EU ENC directive UKCA marking (see declaration of conformity) TO UK instructions for EMC TO UK RoH5 instructions Certificate issuing authority UL E232949 Note on materials ROH5-compliant Measuring principle Optoelectronic Detection method Reflection light sensor Type of light Red UED Max. light spot 65 mm for scan width of 1000 mm Working range 2 mm 1000 mm Morking range Ambient temperature 4-40 °C 60 °C Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switching element function Switching element function Wax. switching frequency 1000 Hz Max. switching frequency 1000 Hz Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop Timer function Short-circuit protection Pulsed Protocol 10-Link®, protocol version 10-Link®, communication mode COM2 (38,4 kBd) 10-Link®, protocol sets under the color of the color	Feature	Value
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Measuring principle Detection method Reflection light sensor Type of light Red LED Max. light spot G5 mm for scan width of 1000 mm Morking range 2 mm 1000 mm Ambient temperature -40 °C 60 °C Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switchable PNP, bright-switching NPN, dark-switching NPN, dark-switching Hysteresis 200 mm Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Via IO-Link® Frotocol IO-Link®, protocol version IO-Link®, communication mode CM2 (38,4 kBd) IO-Link®, process data width OUT IO-Link®, process data content OUT Ibit (milter disable) 1 bit (hold) Io-Link®, process data content OUT Ibit (milter disable) 1 bit (hold)	Certificate issuing authority	UL E232949
Detection method Reflection light sensor Type of light Red LED Max. light spot 65 mm for scan width of 1000 mm Working range 2 mm 1000 mm Ambient temperature -40 °C 60 °C Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switching element function Switchable PNR, bright-switching NPN, dark-switching	Note on materials	RoHS-compliant
Type of light Max. light spot 65 mm for scan width of 1000 mm Working range 2 mm 1000 mm Ambient temperature -40 °C 60 °C Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switchable PNP, bright-switching NPN, dark-switching NPN, dark-switching Hysteresis 200 mm Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Via IO-Link® Short-circuit protection Protocol IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, port class IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Measuring principle	Optoelectronic
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Working range Ambient temperature Ambient temperature -40 °C 60 °C Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switchable PNP, bright-switching NPN, dark-switching NPN, dark-switching Hysteresis 200 mm Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop 10 · · · · · · · · · · · · · · · · · · ·	Type of light	
Ambient temperature Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switchable PNP, bright-switching NPN, dark-switching Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Via IO-Link® Short-circuit protection Pulsed IO-Link®, protocol version IO-Link®, protocol version IO-Link®, protocol version IO-Link®, sl0 mode support Ves IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Max. light spot	65 mm for scan width of 1000 mm
Reference material Standard white 90%, 100x100 mm Switching output Push-pull Switchable PNP, bright-switching NPN, dark-switching NPN, dark-switching Hysteresis 200 mm Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop Via IO-Link® Short-circuit protection Protocol IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Working range	2 mm 1000 mm
Switching output Switching element function Switchable PNP, bright-switching NPN, dark-switching NPN, da	Ambient temperature	-40 °C 60 °C
Switching element function Switchable PNP, bright-switching NPN, dark-switching Hysteresis 200 mm Max. switching frequency 1000 Hz Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Short-circuit protection Protocol IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, sIO mode support Yes IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Reference material	Standard white 90%, 100x100 mm
PNP, bright-switching NPN, dark-switching NPN,	Switching output	Push-pull
Max. switching frequency Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Via IO-Link® Short-circuit protection Protocol IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Ves IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Switching element function	PNP, bright-switching
Max. output current 100 mA Voltage drop 0 V 1.5 V Timer function Via IO-Link® Short-circuit protection Protocol IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Hysteresis	200 mm
Voltage drop O V 1.5 V Timer function Via IO-Link® Short-circuit protection Protocol IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Max. switching frequency	1000 Hz
Timer function Via IO-Link® Short-circuit protection Pulsed Protocol IO-Link® IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Max. output current	100 mA
Short-circuit protection Pulsed Protocol IO-Link® IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT D-Link®, process data content OUT	Voltage drop	0 V 1.5 V
Protocol IO-Link® IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Timer function	Via IO-Link®
IO-Link®, protocol version IO-Link®, communication mode COM2 (38,4 kBd) IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Short-circuit protection	Pulsed
IO-Link®, communication mode COM2 (38,4 kBd) Ves IO-Link®, SIO mode support Ves IO-Link®, port class A IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	Protocol	IO-Link®
IO-Link®, SIO mode support Yes IO-Link®, port class A IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	IO-Link®, protocol version	Device V 1.1
IO-Link®, port class IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, process data width OUT 2 bit IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	IO-Link®, SIO mode support	Yes
IO-Link®, process data content OUT 1 bit (emitter disable) 1 bit (hold)	IO-Link®, port class	A
1 bit (hold)	IO-Link®, process data width OUT	2 bit
IO-Link®, process data width IN 1 bit	IO-Link®, process data content OUT	· · · · · · · · · · · · · · · · · · ·
	IO-Link®, process data width IN	1 bit

Feature	Value
IO-Link®, process data content IN	1 bit SSC (switching signal)
IO-Link®, minimum cycle time	2.3 ms
IO-Link®, data memory required	2000 byte
DC operating voltage range	10 V 30 V
Residual ripple	10 %
Idle current	25 mA
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	Snap-locking Screw-type lock not rotatable
Electrical connection 1, type of mounting	Compatible with latching lock Compatible with screw lock rotatable
Electrical connection for input 1, connection pattern	00991155
Material of pin contacts	Brass, gold-plated
Type of mounting	With through-hole for M3 screw
Tightening torque	0.8 Nm
Mounting position	Any
Product weight	10 g
Housing material	PC PMMA
Ready status indication	LED green
Switching status indication	LED yellow
Setting options	IO-Link® Potentiometer Teach-in
Setting range, lower limit	75 mm
Setting range, upper limit	1000 mm
Degree of protection	IP65 IP67 IP69K
Insulation voltage	500 V
Surge resistance	1 kV
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Contamination level	3