

Retro-reflective sensor SOOD-RS-R-PN

Part number: 8075657

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Design	Block design
Conforms to standard	EN 60947-5-2
Symbol	00995959
Approval	RCM c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	RoHS compliant
Measuring principle	Optoelectronic
Detection method	Retro-reflective sensor
Type of light	Red LED
Max. light spot	60 mm with 800 mm
Operating distance	0 mm ... 1000 mm
Sensor reflector distance	40 ... 1000 mm SARA-R-Q50-S 100 ... 1200 mm SARA-R-Q50-MC 100 ... 800 mm SARA-RF-Q100-S 100 ... 2000 mm SARA-RF-Q100-MC 40 ... 1000 mm SARA-R-Q20-S 100 ... 800 mm SARA-R-Q20-MC 100 ... 500 mm SARA-R-Q14-M 100 ... 800 mm SARA-R-D20-M
Ambient temperature	-25 °C ... 60 °C
Reference material	Reference reflector: SARA-R-Q50-S
Switching output	Push-pull
Switching element function	PNP dark switching NPN light switching
Max. switching frequency	800 Hz
Max. output current	50 mA
Voltage drop	0 V ... 1.5 V
Short circuit current rating	Pulsed
Operational voltage range DC	10 V ... 30 V
Residual ripple	10%
No-load supply current	10 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104

Feature	Value
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock with AF9
Electrical connection 1, connection pattern	00991155
Material electrical contact	Gold-plated brass
Cable length	0.15 m
Cable characteristic	Standard
Material cable sheath	TPE-U(PUR)
Type of mounting	With through-hole
Tightening torque	0.5 Nm
Mounting position	Any
Product weight	10 g
Material housing	Makrolon® TPE-U(PU)
Ready status indication	Green LED
Switching status indication	Yellow LED
Function reserve indication	Flashing yellow LED
Degree of protection	IP65 IP67
Insulation voltage	500 V
Immunity to surge	1 kV
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3