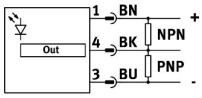
Retro-reflective sensor
SOOD-RS-R-PN

Part number: 8075657





Data sheet

Feature	Value
Design	Block design
Conforms to standard	EN 60947-5-2
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC 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
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 %

Feature	Value
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
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock, size 9 mm A/F
Material electrical contact	Gold-plated brass
Cable length	150 mm
Cable characteristic	Standard
Material cable sheath	TPE-U(PUR)
Type of mounting	With through-hole
Tightening torque	0.5 Nm
Mounting position	optional
Product weight	10 g
Material housing	ABS PC 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