Diffuse scan
SOOD-BS-R-PN-80
Part number: 8075655

FESTO
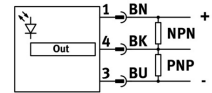
📄 General operating condition

Data sheet

Feature	Value
Design	Block design
Conforms to standard	EN 60947-5-2
Symbol	00995959
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per 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	Reflection light sensor with HGA
Type of light	Red LED
Max. light spot	5 mm for scan width of 80 mm
Minimum object diameter	5 mm
Working range	15 mm ... 80 mm
Ambient temperature	-25 °C ... 60 °C
Max. black-white difference	20 %
Reference material	Standard white 90%, 100x100 mm
Switching output	Push-pull
Switching element function	PNP, bright-switching NPN, dark-switching
Hysteresis	2.4 mm
Max. switching frequency	800 Hz
Max. output current	50 mA
Voltage drop	0 V ... 1.5 V
Short-circuit protection	Pulsed
DC operating voltage range	10 V ... 30 V
Residual ripple	10 %
Idle current	10 mA
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable with 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	Screw-type lock

Feature	Value
Electrical connection for input 1, connection pattern	00991155
Material of pin contacts	Brass, gold-plated
Cable length	0.15 m
Cable characteristic	Standard
Material of cable sheath	TPE-U(PUR)
Type of mounting	With through-hole
Tightening torque	0.5 Nm
Mounting position	Any
Product weight	10 g
Housing material	ABS PC TPE-U(PU)
Ready status indication	LED green
Switching status indication	LED yellow
Degree of protection	IP65 IP67
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