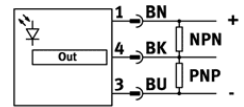


# diffuse sensor SOOD-BS-R-PN-80

Part number: 8075655

FESTO



## Data sheet

Feature	Value
Design	Block design
Conforms to standard	EN 60947-5-2
Authorisation	RCM Mark c UL us - Recognized (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	Red LED
Max. spot diameter	5 mm at a sensing range of 80 mm
Minimal object diameter	5 mm
Working range	15 ... 80 mm
Ambient temperature	-25 ... 60 °C
Max. black/white difference	20 %
Reference material	Standard white 90%, 100x100 mm
Switch output	Push-pull
Switching element function	PNP, light switching NPN, dark switching
Hysteresis	2.4 mm
Max. switching frequency	800 Hz
Max. output current	50 mA
Voltage drop	0 ... 1.5 V
Short circuit strength	Pulsing
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
Idle current	10 mA
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable with 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
Cable length	150 mm
Cable attribute	Standard
Material cable sheath	TPE-U(PUR)
Mounting type	with through hole
Tightening torque	0.5 Nm
Assembly position	Any
Product weight	10 g
Material housing	ABS PC

Feature	Value
	TPE-U(PU)
Ready status display	Green LED
Operating status display	Yellow LED
Protection class	IP65 IP67
Insulation voltage	500 V
Surge strength	1 kV
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364 zone III
Degree of contamination	3