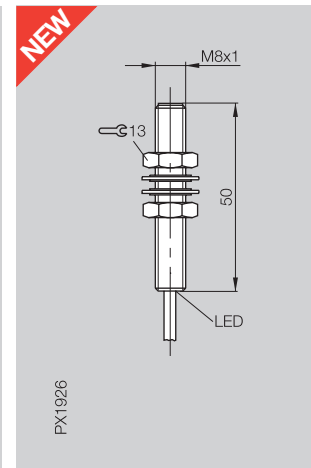
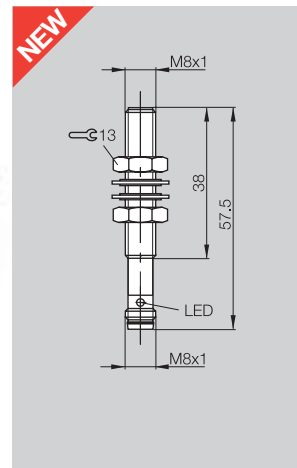


BOS 08M

Balluff's BOS 08M photoelectric sensor family includes thru-beam, polarized retroreflective, and proximity diffuse sensing models, available in M8 connector or cable out versions.

An 8 mm diameter allows maximum mounting flexibility in confined areas. It's more economical form factor can replace bulky fiber optic cables, and offers a better bend radius without a loss of light, giving the BOS 08M more power for difficult applications.



Diffuse

PNP NO Light-on 55 mm	①	BOS 08M-PS-RD11-S49	BOS 08M-PS-RD11-03
PNP NC Dark-on 55 mm	②	BOS 08M-PO-RD11-S49	BOS 08M-PO-RD11-03
NPN NO Light-on 55 mm	③	BOS 08M-NS-RD11-S49	BOS 08M-NS-RD11-03
NPN NC Dark-on 55 mm	④	BOS 08M-NO-RD11-S49	BOS 08M-NO-RD11-03

Polarized Retroreflective

PNP NO Dark-on 550 mm	①	BOS 08M-PS-PR11-S49	BOS 08M-PS-PR11-03
PNP NC Light-on 550 mm	②	BOS 08M-PO-PR11-S49	BOS 08M-PO-PR11-03
NPN NO Dark-on 550 mm	③	BOS 08M-NS-PR11-S49	BOS 08M-NS-PR11-03
NPN NC Light-on 550 mm	④	BOS 08M-NO-PR11-S49	BOS 08M-NO-PR11-03

Thru-beam

PNP NO Dark-on 1.1 m Receiver	①	BOS 08M-PS-RE11-S49	BOS 08M-PS-RE11-03
PNP NC Light-on 1.1 m Receiver	②	BOS 08M-PO-RE11-S49	BOS 08M-PO-RE11-03
NPN NO Dark-on 1.1 m Receiver	③	BOS 08M-NS-RE11-S49	BOS 08M-NS-RE11-03
NPN NC Light-on 1.1 m Receiver	④	BOS 08M-NO-RE11-S49	BOS 08M-NO-RE11-03
Emitter	⑤	BOS 08M-X-RS11-S49	BOS 08M-X-RS11-03

Supply Voltage	10...30 Vdc
Ripple	≤ 10%
Voltage Drop U_d at I_e	≤ 2 V
Rated Output Current I_e	100 mA
Current Consumption I_o (No Load)	Thru-beam ≤ 15 mA, Others ≤ 20 mA
Utilization Category (IEC 60-947-4-1)	DC 13
Output Duty Cycle	
Emitter Light Source	Visible Red 640 nm
Ambient Light Immunity (EN 60947-5-2)	5000 Lux
Output Indicator	Red LED
Switching Frequency	500 Hz
Response Time (On/Off Delay)	≤ 1ms
Operating Temperature Range	-10°C to +60°C
Degree of Protection per IEC 60529	IP 67
Short Circuit Protection	Yes
Overload Protection	Yes
Housing Material	nickel plated brass
Sensing Face Material	PMMA
Connection	M8 3-pin connector Cable 3 m, PUR, 3 x 26 AWG
Recommended Connector	C49 ANE-00-VY-050M
Weight	13 g 47 g

Diffuse values referenced to standard Kodak test card.
Retroreflective values referenced to BOS R-9 reflector.

① = Number indicates wiring diagram
See page 2.16 for diagrams

Contents

Selection Guide

Applications

Tubular

Block

Distance Measurement (Analog)

Slot & Angle

Fiber Optics

Full Color Detection

Color Mark (Contrast) Detection

Luminescence (UV) Detection

Optical Windows

Dimensional Light Grids

6 Connectors

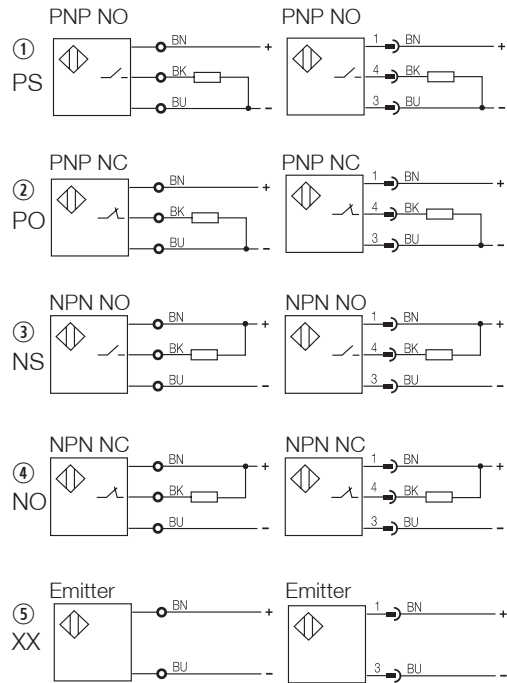
7 Accessories

o Product Overview

t Technical Reference

p Part Number Index

Wiring diagrams



Recommended accessories and cables

Please order separately
See sections 6 & 7



Reflector
BOS R-9



Cable
C49 ANE/BNE