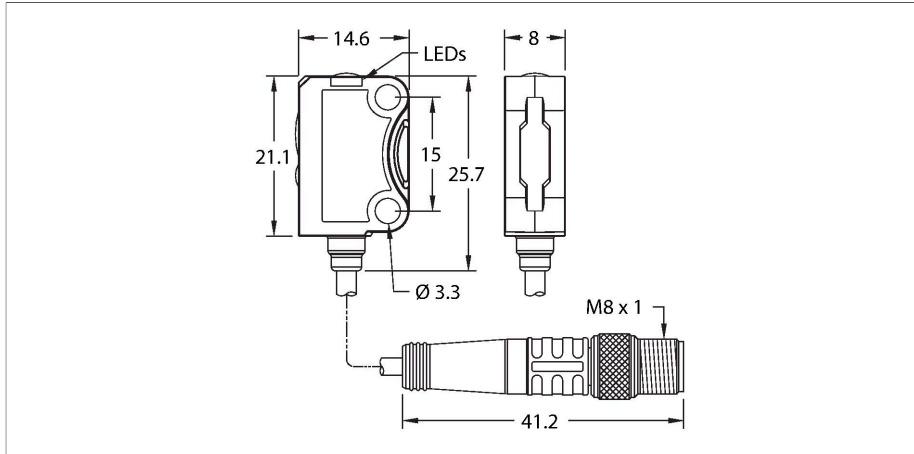


VS8APFF15Q3

Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



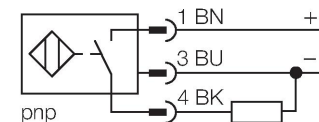
Technical data

Type	VS8APFF15Q3
ID	3803451
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	Red
Wavelength	650 nm
Range	2...15 mm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 20 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	NO contact, PNP
Switching frequency	1 kHz
Readiness delay	≤ 300 ms
Response time typical	< 0.5 ms
Mechanical data	
Design	Rectangular, VS8
Dimensions	14.6 x 8 x 25.7 mm
Housing material	Plastic, PUR, Black
Lens	plastic, PMMA
Electrical connection	Cable with connector, M8 x 1, 0.2 m, PUR
Number of cores	3

Features

- Connection via 200 m cable, PUR with M8 male connector
- LED emitter, red
- Operating voltage: 10...30 VDC
- PNP switching output, NO contact

Wiring diagram



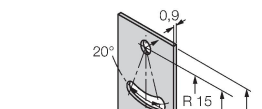
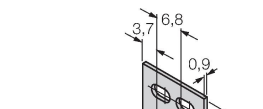
Functional principle

These miniature photoelectric sensors in a rugged housing are ideal for detecting small parts in harsh environments. The bright and clearly visible light spots help with detecting extremely small objects. Devices with a blue emitter LED are also available, along with laser variants. The 4-pin devices all have a teach input that, in addition to the pushbutton on the devices, can be used to configure the sensor. This allows the switching point to be adjusted or the output behavior to be inverted. ECOLAB certification for devices with a cable connection rounds off the portfolio and allows use in cleanrooms or in the food industry.

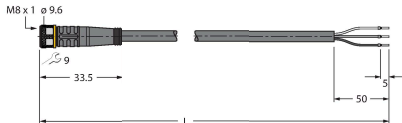
Technical data

Ambient temperature	-20...+60 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
Approvals	CE cULus

Accessories

SMBQ12A 	3074341 Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series	SMBQ12T 	3073722 Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series
SMBVS8RA	3803492 Mounting bracket, for VS8 series sensors, angled, stainless steel	SMBVS8DT	3803493 Mounting clamp, plastic, black, for VS8 series sensors

Accessories

Dimension drawing	Type	ID	
	PKG3M-2/TXL	6625550	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	PKW3M-2/TXL	6625556	Connection cable, female M8, angled, 3-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com