VS8EAPLAF70Q5
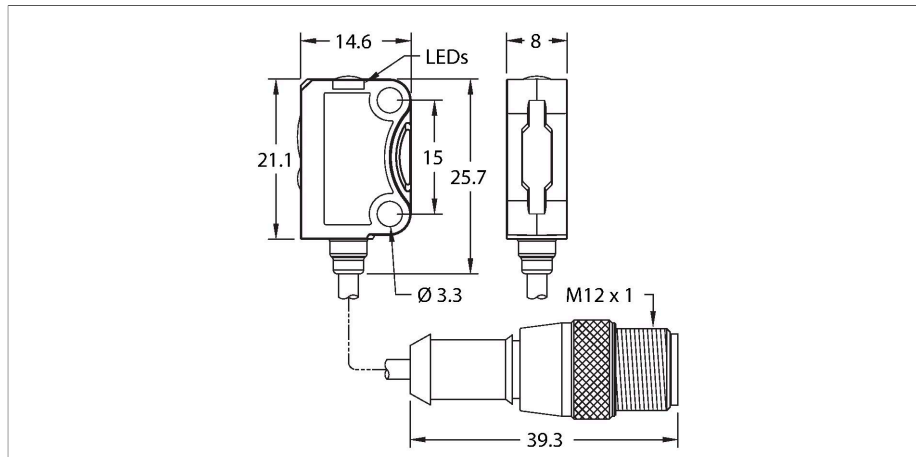# Photoelectric Sensor – Laser Diffuse Mode Sensor with Adjustable Background Suppression


Technical data

Type	VS8EAPLAF70Q5
ID no.	3803553
Optical data	
Function	Proximity switch
Operating mode	Background suppression, adjustable
Light type	Red
Wavelength	655 nm
Laser class	⚠ 1
Range	6…70 mm
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	< 10 % U_{ss}
DC rated operational current	≤ 12 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
Setting option	Push Button Remote Teach
Mechanical data	
Design	Rectangular, VS8
Dimensions	14.6 x 8 x 25.7 mm
Housing material	Plastic, Black
Lens	plastic, PMMA

Features

■ Connection via 200 m cable, PUR with M12 male connector
■ Setting via pushbutton
■ Laser class 1, red
■ Operating voltage: 10…30 VDC
■ Teach input
■ PNP switching output, NO contact, switchable

Wiring diagram
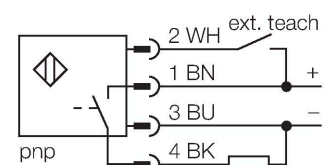

Functional principle

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.

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Technical data

Electrical connection	Cable with connector, M12 × 1, 0.2 m, PUR
Number of cores	4
Ambient temperature	-20…+50 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
Approvals	CE cULus

Accessories
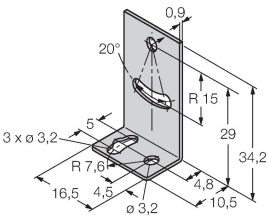
SMBQ12A	3074341		SMBQ12T	3073722

Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series
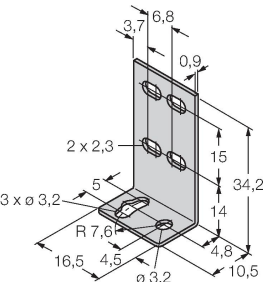
Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series

SMBVS8RA	3803492		SMBVS8DT	3803493

Mounting bracket, for VS8 series sensors, angled, stainless steel

Mounting clamp, plastic, black, for VS8 series sensors

Accessories

Dimension drawing	Type	ID no.	
	RKC4.4T-2/TXL	6625503	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC4.4T-2/TXL	6625515	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com