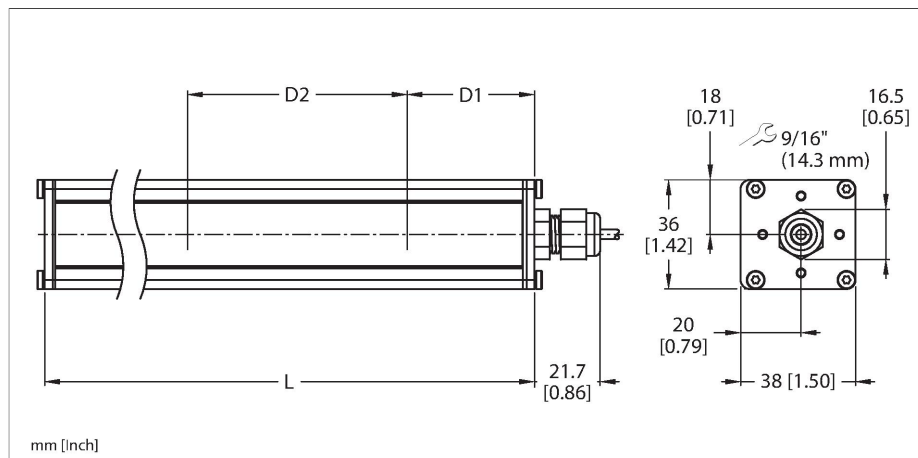


SAB-497RB1LP6-Q5E

Photoelectric Sensor – Light Grid



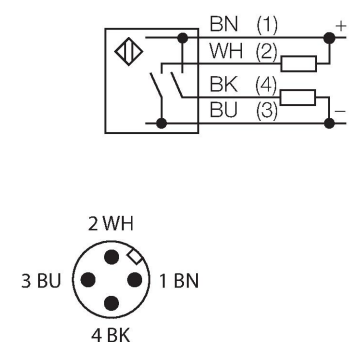
Technical data

Type	SAB-497RB1LP6-Q5E
ID	3805074
Optical data	
Function	Retroreflective sensor
Operating mode	Polarized
Light type	Red polarized
Wavelength	624 nm
Optical resolution	82.6 mm
Range	1000 mm
Scan field	497 mm
Number of beams	6
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Response time typical	< 1.5 ms
Mechanical data	
Design	Rectangular, SAB
Dimensions	38 x 36 x 497 mm
Housing material	Anodized aluminium, AL, Anodized
Lens	plastic, Acrylic
Cascadable	No
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4

Features

- Connection via 150-mm cable with male connector, M12 × 1, 4-pin
- Protection class IP50
- Number of beams: 6
- Range: 3 m to reflector BRT-92×92C or BRT-77×77C, or 1 m to reflector foil BRT-THG-2
- Operating voltage 10...30 VDC
- Switching output, bipolar, dark operation

Wiring diagram



Functional principle

Light curtains are suitable for monitoring larger areas, e.g. packages, letters, etc. at the ends of roller conveyors. Depending on the model, the SAB product series uses a diffuse sensor operating principle, or a retroreflective sensor operating principle involving reflectors. The light curtains have 6 to 13 beams and monitor a total width of 497 to 998 mm. The robust metal housing resists shocks and vibrations that can be caused by objects.

Technical data

Ambient temperature	-20...+55 °C
Storage temperature	-20...+55 °C
Relative humidity	0...95 %
Protection class	IP50
Power-on indication	LED, Green
Switching state	LED, Yellow
Tests/approvals	
Approvals	CE