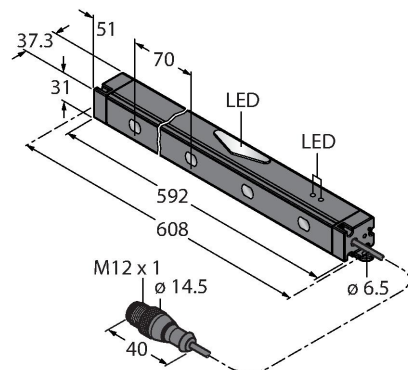


PVL500PQ

Pick-to-Light – Placement Sensor

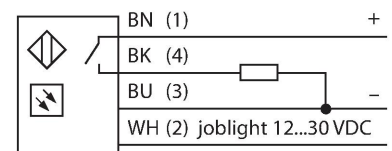
Reflex Light Grid



Features

- Scan field: 500mm
- 8-beam system
- Max. distance to reflector 1.5m
- Operating voltage: 12...30 VDC
- Protection class: IP50
- Cable PVC, 2 m, with plug, M12 x 1, 4-pin
- Reflector tape (25 x 280 mm or 25 x 555 mm) included in the scope of delivery
- PNP switching output

Wiring diagram



Technical data

Type	PVL500PQ
ID	3032311
Signal and display data	
Purpose	Pick-to-Light
Function	Retroreflective Sensor
Max. range	1500 mm
Light type	Red
Scan field	500 mm
Number of beams	8
Optical resolution	70 mm
Switch Function	Momentary
Features of color 1	Green, Permanently on
Features of color 2	Red, Flashing
Electrical data	
Operating voltage U_B	12...30 VDC
DC rated operating current I_o	≤ 140 mA
Max. current consumption per color	220 mA
Output function	NO contact, PNP
Input type	PNP
Response time typical	< 2 ms
Mechanical data	
Design	Rectangular, PVL
Dimensions	608 x 31 x 37.3 mm
Housing material	Metal, Anodized AL
Window material	Acrylic, clear

Functional principle

The PVL sensor is a user-friendly one-piece light screen used for assembly, component picking and fault detection tasks. The PVL incorporates emitter and receiver. Together with the reflector, which is included in the delivery, the sensor operates in retroreflective mode. The operating modes need not be configured. The reflector is mounted opposite to the sensor. The automatic set-up routine makes manual adjustments redundant. The work light is triggered externally and is steady green during the assigned signal period. The integrated sensor reports "pick-up" back. Mispick is indicated by the work light flashing red.

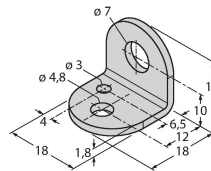
The term work light therefore refers to the visual indicator of the bin from which a part should be removed next. The actuation indicator confirms the removal with a different color. The mispick indicator illuminates if a bin was reached into when the work light was not set.

Technical data

Electrical connection	Cable with connector, M12 × 1, 2 m, PVC
Number of cores	5
Ambient temperature	-40...+50 °C
Protection class	IP50
Tests/approvals	
Approvals	CE

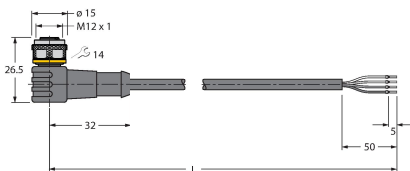
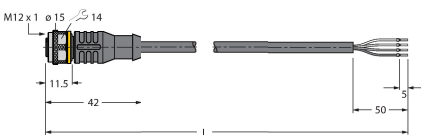
Accessories

SMBPVL2-500	3084738	Mounting bracket, for PVL reflector foil, cold-rolled steel, reflector foil included in delivery	SMBPVL1	3026816	Mounting angle, for PVL, side mounting, cold-rolled steel, optional, 2 units required for assembly
SMBPVL4	3026819	Mounting angle, for PVL, lateral pipe mounting, 28 mm internal diameter, cold-rolled steel, optional, 2 units required for assembly	SMBPVL5	3026820	Mounting angle, for PVL, pipe mounting, 28 mm internal diameter, cold-rolled steel, optional, 2 units required for assembly



Accessories

Dimension drawing	Type	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval



Accessories

Dimension drawing	Type	ID	
	BRT-THG-1-100	3026619	Rectangular reflector band, 25 x 2500 mm, cut to size, reflection factor 0.7, ambient temperature -20 ... +60 °C, range with PVL light grid 1.5 m



Dimension drawing	Type	ID	
	BRT-84X84A	3073690	Rectangular reflector, 84 x 84 mm, reflection factor 2, range with PVL light grid 6 m