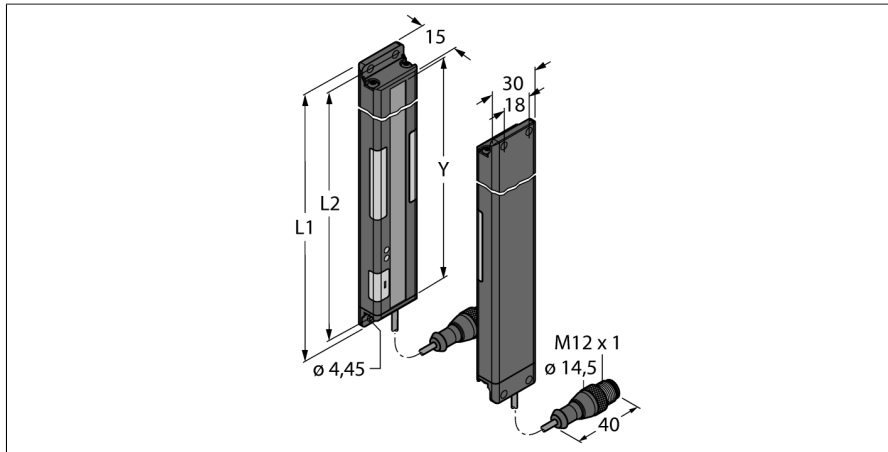


Pick-to-Light Placement Sensor Light Grid Kit PVA300N6Q



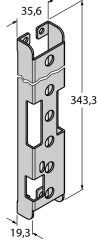
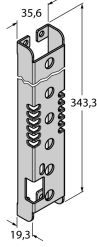
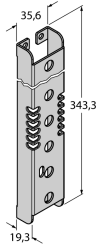
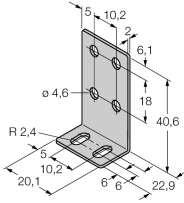
- Scan field L2: 300 mm
- 13-beam system, beam spacing 25 mm
- Emitter / Receiver
- Range max. 2 m
- Light / Dark operation
- Selectable frequency as protection against crosstalk
- Operating voltage 12...30 VDC
- NPN switching output of the receiver
- Input of operation request light 0 VDC
- Protection class IP62

Functional principle

This light screen used for fault detection and assembly sequences, has good visible job lights at the emitter and the receiver, guiding the operator through the picking sequence. Missing parts and incorrect assembly are thus avoided. A control unit issues the work sequence and indicates the next work step after receiving feedback from the light screen. Mispick is immediately detected and indicated by a red flashing light.

Type	PVA300N6Q
ID	3052912
Signal and display data	
Purpose	Pick-to-Light
Function	Opposed mode sensor
Max. range	2000 mm
Light type	IR
Scan field	300 mm
Number of beams	13
Optical resolution	25 mm
Switch Function	Momentary
Features of color 1	Green, Can be set via DIP switches
Electrical data	
Operating voltage U_s	12...30 VDC
Max. current consumption per color	62 mA
Output function	NO/NC, NPN
Input type	Bipolar (PNP/NPN)
Response time typical	< 52 ms
Mechanical data	
Design	Rectangular, PVA
Housing material	Metal, AL, Black
Window material	Acrylic, clear
Electrical connection	Cable with connector, M12 × 1, 2 m, PVC
Number of cores	4
Ambient temperature	0...+50 °C
Protection class	IP62
Tests/approvals	
Approvals	CE, cURus

Accessories

Type code	Ident no.		Dimension drawing
SMBPVA13	3056810	Mounting bracket, for PVA300, cold-rolled steel, cut-out for DIP switch block	 <p>Technical drawing of the SMBPVA13 mounting bracket. It is a vertical, cold-rolled steel bracket with a width of 35.6 mm and a total height of 343.3 mm. The bottom edge has a thickness of 19.3 mm. It features a cut-out at the top for a DIP switch block and two screw holes on each side.</p>
SMBPVA13A	3062448	Mounting bracket, for PVA300, cold-rolled steel, cut-out for DIP switch block, protection for light	 <p>Technical drawing of the SMBPVA13A mounting bracket. It is a vertical, cold-rolled steel bracket with a width of 35.6 mm and a total height of 343.3 mm. The bottom edge has a thickness of 19.3 mm. It features a cut-out at the top for a DIP switch block and two screw holes on each side. It includes a protective cover for the light.</p>
SMBPVA13AB	3070807	Mounting bracket, for PVA300, cold-rolled steel, no cut-out for DIP switch block, protection for light	 <p>Technical drawing of the SMBPVA13AB mounting bracket. It is a vertical, cold-rolled steel bracket with a width of 35.6 mm and a total height of 343.3 mm. The bottom edge has a thickness of 19.3 mm. It features two screw holes on each side and a protective cover for the light.</p>
SMBPVA1	3056884	Mounting bracket, for PVA and PVD, stainless steel; set consisting of two brackets and screws	 <p>Technical drawing of the SMBPVA1 mounting bracket. It is a stainless steel bracket consisting of two parts. The main vertical part has a width of 10.2 mm and a height of 40.6 mm. The bottom part has a width of 20.1 mm and a height of 22.9 mm. The bottom part has a radius of R 2.4 and a hole diameter of $\phi 4.6$. The main part has a hole diameter of 5 mm and a distance of 6.1 mm from the top edge to the hole center. The bottom part has a distance of 5 mm from the left edge to the hole center and 6 mm from the right edge to the hole center.</p>