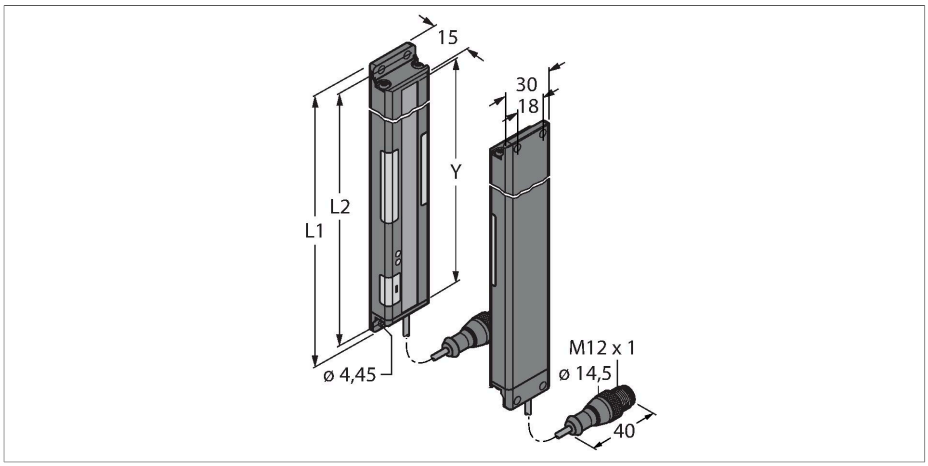
PVA225N6Q
Pick-to-Light – Placement Sensor Light Grid Kit



Features

- Scan field L2: 225 mm
- 10-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.

Technical data

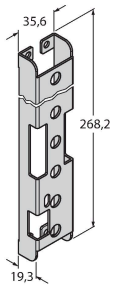
Type	PVA225N6Q
ID	3052908
Signal and display data	
Purpose	Pick-to-Light
Function	Opposed mode sensor
Max. range	2000 mm
Light type	IR
Scan field	225 mm
Number of beams	10
Optical resolution	25 mm
Switch Function	Momentary
Features of color 1	Green, Can be set via DIP switches
Electrical data	
Operating voltage	12…30 VDC
Max. current consumption per color	62 mA
Output function	NO/NC, NPN
Input type	Bipolar (PNP/NPN)
Response time typical	< 40 ms
Mechanical data	
Design	Rectangular, PVA
Dimensions	266.4 x 30 x 15 mm
Housing material	Metal, AL, Black
Window material	Acrylic, clear
Electrical connection	Cable with connector, M12 × 1, 2 m, PVC
Number of cores	4

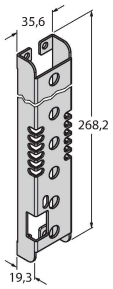
PVA225N6Q | 17-11-2023 14-09 | Technical modifications reserved

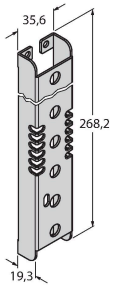
Technical data

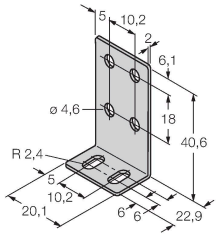
Ambient temperature	0…+50 °C
Protection class	IP62
Tests/approvals	
Approvals	CE, cURus

Accessories

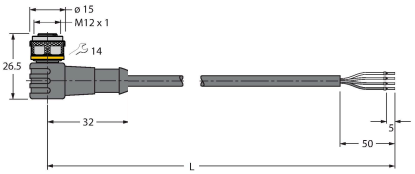
SMBPVA10	3056809
	Mounting bracket, for PVA225, cold-rolled steel, cut-out for DIP switch block

SMBPVA10A	3062447
	Mounting bracket, for PVA225, cold-rolled steel, cut-out for DIP switch block, protection for light

SMBPVA10AB	3070806
	Mounting bracket, for PVA225, cold-rolled steel, no cut-out for DIP switch block, protection for light

SMBPVA1	3056884
	Mounting bracket, for PVA and PVD, stainless steel; set consisting of two brackets and screws

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

PVA225N6Q | 17-11-2023 14-09 | Technical modifications reserved