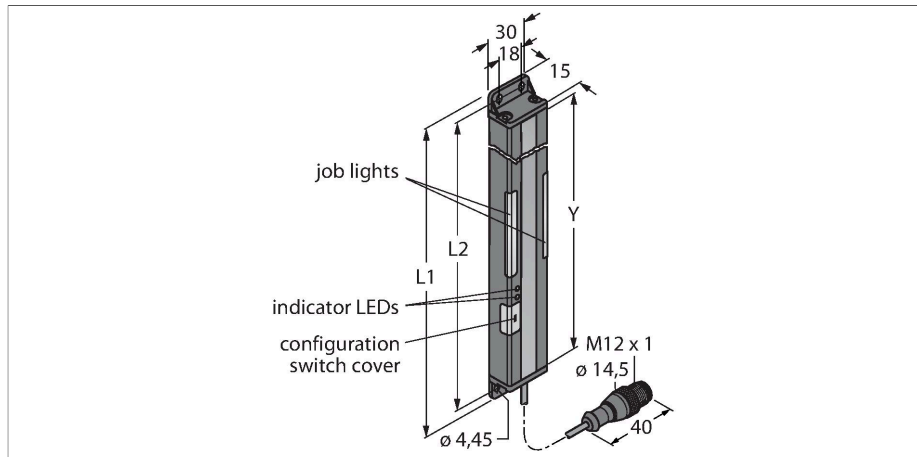


PVA100N6EQ
Pick-to-Light – Placement Sensor
Light Grid



Technical data

Type	PVA100N6EQ
ID	3051929
Signal and display data	
Purpose	Pick-to-Light
Function	Opposed mode sensor
Max. range	2000 mm
Light type	IR
Scan field	100 mm
Number of beams	5
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
Input type	Bipolar (PNP/NPN)22
Response time typical	< 20 ms
Mechanical data	
Design	Rectangular, PVA
Dimensions	137.8 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
Ambient temperature	0...+50 °C

Features

- Scan field Y: 100 mm
- Total height 137.8 mm
- 5-beam system, beam spacing 25 mm
- Emitter
- Range max. 2 m
- Light / Dark operation
- Selectable frequency as protection against crosstalk
- Operating voltage 12...30 VDC
- Input of operation request light +24 VDC
- Protection class IP62

Wiring diagram



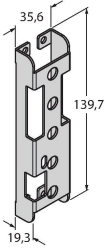
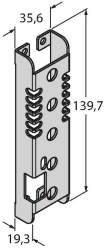
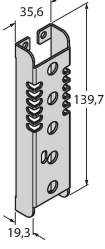
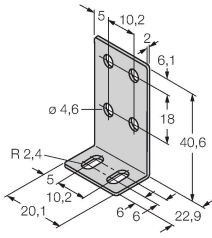
Functional principle

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. Misspick is immediately detected and indicated by a red flashing light.

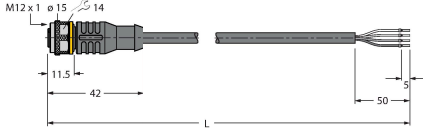
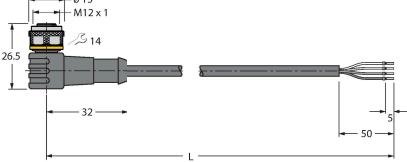
Technical data

Protection class	IP62
Tests/approvals	
Approvals	CE, cURus

Accessories

SMBPVA5	3056500	Mounting bracket, for PVA100, cold-rolled steel, cut-out for DIP switch block
		
SMBPVA5A	3062446	Mounting bracket, for PVA100, cold-rolled steel, cut-out for DIP switch block, protection for light
		
SMBPVA5AB	3070805	Mounting bracket, for PVA100, 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