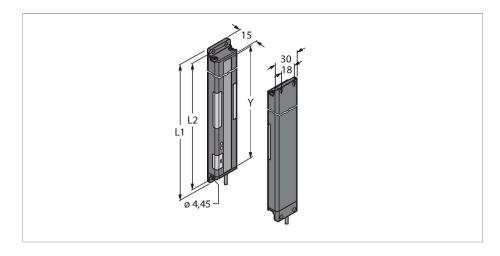


## PVA300N6 Pick-to-Light – Placement Sensor Light Grid Kit



#### Technical data

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 <sub>0</sub> 1230 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  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Туре	PVA300N6
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 <sub>B</sub> 1230 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  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Cable, 2 m, PVC	ID	3052910
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 <sub>B</sub> 1230 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  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Signal and display data	
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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 <sub>B</sub> 1230 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  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Function	Opposed mode sensor
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 <sub>B</sub> 1230 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  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Max. range	2000 mm
Number of beams  Optical resolution  25 mm  Switch Function  Momentary  Features of color 1  Green, Can be set via DIP switches  Electrical data  Operating voltage U <sub>B</sub> 1230 VDC  Max. current consumption per color  Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  Vestimate typical  Mechanical data  Design  Rectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Electrical connection  Cable, 2 m, PVC	Light type	IR
Optical resolution  Switch Function  Momentary  Features of color 1  Green, Can be set via DIP switches  Electrical data  Operating voltage U <sub>B</sub> 1230 VDC  Max. current consumption per color  Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  Vertical data  Design  Rectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Electrical connection  Cable, 2 m, PVC	Scan field	300 mm
Switch Function  Features of color 1  Green, Can be set via DIP switches  Electrical data  Operating voltage U <sub>B</sub> 1230 VDC  Max. current consumption per color  Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  Vectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Electrical connection  Momentary  Green, Can be set via DIP switches  1230 VDC  62 mA  NO/NC, NPN  Bipolar (PNP/NPN)  Response time typical  Acytic, clear  Cable, 2 m, PVC	Number of beams	13
Features of color 1 Green, Can be set via DIP switches  Electrical data Operating voltage U <sub>B</sub> 1230 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 Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Optical resolution	25 mm
Electrical data  Operating voltage U <sub>B</sub> 1230 VDC  Max. current consumption per color  Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  < 52 ms  Mechanical data  Design  Rectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Electrical connection  Cable, 2 m, PVC	Switch Function	Momentary
Operating voltage U₅       1230 VDC         Max. current consumption per color       62 mA         Output function       NO/NC, NPN         Input type       Bipolar (PNP/NPN)         Response time typical       < 52 ms	Features of color 1	Green, Can be set via DIP switches
Max. current consumption per color  Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  < 52 ms  Mechanical data  Design  Rectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Electrical connection  Cable, 2 m, PVC	Electrical data	
Output function  NO/NC, NPN  Input type  Bipolar (PNP/NPN)  Response time typical  < 52 ms  Mechanical data  Design  Rectangular, PVA  Dimensions  341.4 x 30 x 15 mm  Housing material  Metal, AL, Black  Window material  Acrylic, clear  Electrical connection  Cable, 2 m, PVC	Operating voltage U <sub>B</sub>	1230 VDC
Input type Bipolar (PNP/NPN)  Response time typical < 52 ms  Mechanical data  Design Rectangular, PVA  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Max. current consumption per color	62 mA
Response time typical < 52 ms  Mechanical data  Design Rectangular, PVA  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Output function	NO/NC, NPN
Mechanical data  Design Rectangular, PVA  Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Input type	Bipolar (PNP/NPN)
DesignRectangular, PVADimensions341.4 x 30 x 15 mmHousing materialMetal, AL, BlackWindow materialAcrylic, clearElectrical connectionCable, 2 m, PVC	Response time typical	< 52 ms
Dimensions 341.4 x 30 x 15 mm  Housing material Metal, AL, Black  Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Mechanical data	
Housing material Metal, AL, Black Window material Acrylic, clear Electrical connection Cable, 2 m, PVC	Design	Rectangular, PVA
Window material Acrylic, clear  Electrical connection Cable, 2 m, PVC	Dimensions	341.4 x 30 x 15 mm
Electrical connection Cable, 2 m, PVC	Housing material	Metal, AL, Black
	Window material	Acrylic, clear
Number of cores	Electrical connection	Cable, 2 m, PVC
Number of cores 4	Number of cores	4

#### **Features**

- ■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.



#### Technical data

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

#### Accessories

### SMBPVA13 3056810 Mounting bracket, for PVA300, cold-rolled steel, cut-out for DIP switch block

# SMBPVA13AB 3070807 Mounting bracket, for PVA300, coldrolled steel, no cut-out for DIP switch block, protection for light

