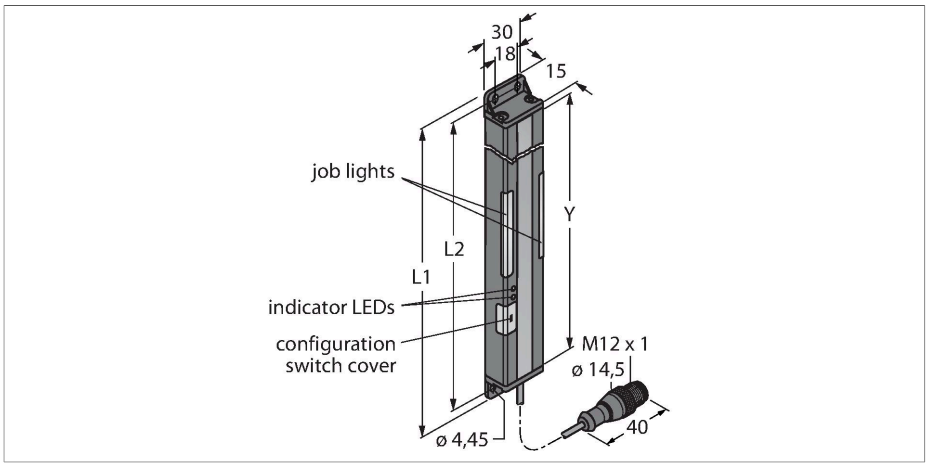
# PVA300N6EQ
# Pick-to-Light – Placement Sensor Light Grid




## Technical data

| | |
|---|---|
| Type | PVA300N6EQ |
| ID | 3051931 |
| **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 | 12…30 VDC |
| Max. current consumption per color | 62 mA |
| 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 with connector, M12 × 1, 2 m, PVC |
| Number of cores | 4 |
| Ambient temperature | 0…+50 °C |

## Features

- Scan field Y: 300 mm
- Total height 341.4 mm
- 13-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

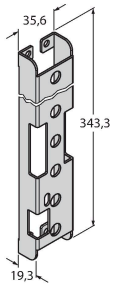
This light screen used for fault detection and assembly sequences, has good visible job lights at the emitter and the receiver, guiding the operator through the picking sequence. Missing parts and incorrect assembly are thus avoided. A control unit issues the work sequence and indicates the next work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

## Technical data

| | |
|---|---|
| Protection class | IP62 |
| **Tests/approvals** | |
| Approvals | CE, cURus |

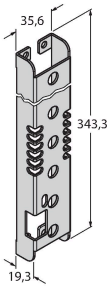
## Accessories

| | |
|---|---|
| SMBPVA13 | 3056810 |



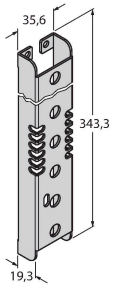

Mounting bracket, for PVA300, cold-rolled steel, cut-out for DIP switch block

| | |
|---|---|
| SMBPVA13A | 3062448 |



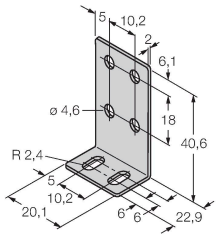

Mounting bracket, for PVA300, cold-rolled steel, cut-out for DIP switch block, protection for light

| | |
|---|---|
| SMBPVA13AB | 3070807 |




Mounting bracket, for PVA300, cold-rolled steel, no cut-out for DIP switch block, protection for light

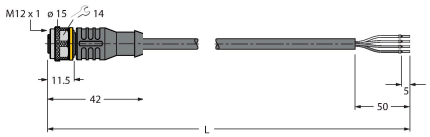
| | |
|---|---|
| SMBPVA1 | 3056884 |




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 |