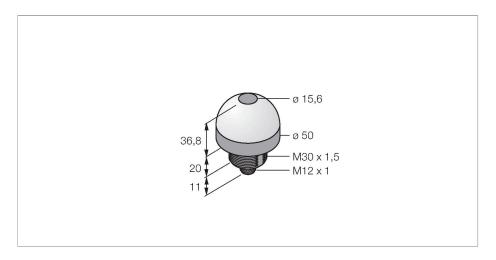


K50RPFF100GRCQ Pick-to-Light – Placement Sensor Diffuse Mode Sensor with Fixed-field Background Suppression





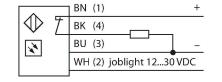
Туре	K50RPFF100GRCQ	
ID	3076232	
Signal and display data		
Purpose	Pick-to-Light	
Function	Diffuse mode sensor with fixed-field back- ground suppression	
Max. range	100 mm	
Light type	Green Red	
Number of beams	1	
Switch Function	Momentary	
Features of color 1	Green, Permanently on	
Features of color 2	Red	
Special features	I/O module-compatible Wash down	
Electrical data		
Operating voltage	1230 VDC	
DC rated operational current	≤ 150 mA	
Max. current consumption per color	75 mA	
Output function	NC contact, PNP	
Input type	PNP	
Response time typical	< 3 ms	
Mechanical data		
Design	Dome, K50	
Dimensions	Ø 50 x 67.8 mm	
Housing material	Plastic, PC, Black	

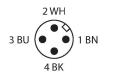


Features

- Protection class IP67
- ■M12 × 1 male connector, 4-pin
- Fixed background suppression at 100 mm
- ■Job light: green
- Mispick: -
- Actuation: red
- Operating voltage 12...30 VDC
- ■PNP switching
- ■NC contact

Wiring diagram





Functional principle

The K50 pick-and-place sensor is suitable for many mounting and component placement applications. The green work light or other signal lights are reflected perfectly by the entire dome (depending on the version). The transistor output can be easily connected to a system control, which is programmed for a special task sequence. The work light of the sensor is located in or next to every bin at the operator's workstation and indicates: 1. The bins with the components to be picked

Technical data

Window material	Polycarbonate, diffuse	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	4	
Ambient temperature	-40+50 °C	
Relative humidity	090 %	
Protection class	IP67 IP69	
Tests/approvals		
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C	
Approvals	CE, cULus listed	

up for a particular work step and 2. the sequence in which the components have to be picked up. If the operator removes a part from the bin, the K50 detects the hand in the bin and sends a signal to the control unit. The system then checks if the correct component has been picked up and - depending on the configuration - switches the corresponding work light off and the next one on, according to the assembly sequence. The work sequence control leads to increased efficiency, improved quality control and reduces rework and testing expenses. The term work light therefore refers to the visual indicator of the bin from which a part should be removed next. The actuation indicator confirms the removal with a different color. The mispick indicator illuminates if a bin was reached into when the work light was not

Accessories

SMB30A	3032723
Mounting bracket, rectangular.	

Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

12,7 66.5 0 7 50.8

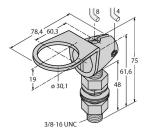
SMB30SC

3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



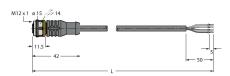
SMB30FA 3074005

Montagewinkel; Werkstoff VA 1.4401



Accessories

Dimension drawing	Туре	ID
	RKC4.4T-2/TEL	6625013



Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval