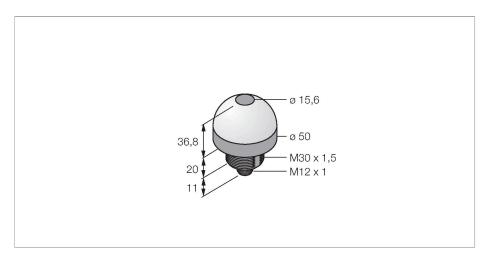


# K50APFF100GREQ Pick-to-Light – Placement Sensor Diffuse Mode Sensor with Fixed-field Background Suppression





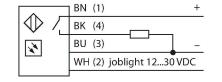
Туре	K50APFF100GREQ		
ID	3076080		
Signal and display data			
Purpose	Pick-to-Light		
Function	Diffuse mode sensor with fixed-field back- ground suppression		
Max. range	100 mm		
Light type	Green Red		
Number of beams	1		
Switch Function	Momentary		
Features of color 1	Green, Permanently on		
Features 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	NO 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		

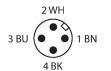


#### **Features**

- Protection class IP67
- ■M12 × 1 male connector, 4-pin
- Fixed background suppression at 100 mm
- ■Job light: green
- Mispick: red
- Actuation: not signalled
- Operating voltage 12...30 VDC
- ■PNP switching
- ■NO 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 SMB30SC

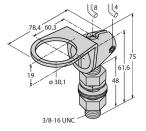
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

12,7 66,5 M30 x 1,5 07 58,7 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

3052521



SMB30FA 3074005

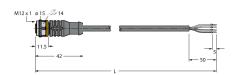


# Montagewinkel; Werkstoff VA 1.4401

#### 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



Dimension drawing	Туре	ID	
015 M12x1 26.5 314	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval