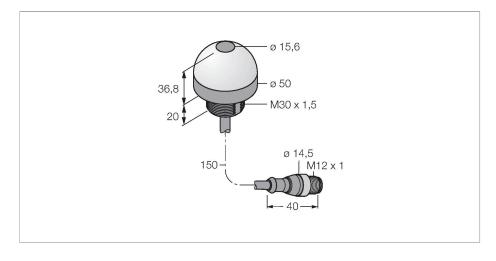


K50APFF50GREQP Pick-to-Light – Placement Sensor Diffuse Mode Sensor with Fixed-field Background Suppression



Technical data

Number of beams

Features of color 1

Features of color 2

Special features

Switch Function

Features

- Protection class IP67
- Cable with M12 × 1 male connector, 4-pin, 150 mm
- Fixed background suppression at 50 mm
- Job light: green
- ■Mispick: red
- Actuation: not signalled
- Operating voltage 12...30 VDC

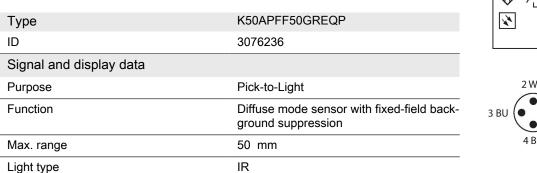
BN (1)

BK (4) BU (3)

WH (2) joblight 12...30 VDC

- ■PNP switching
- ■NO contact

Wiring diagram



Momentary

Red

Green, Permanently on

I/O module-compatible

k-	3 BU 4
_	
	Functio

	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 56.8 mm
Housing material	Plastic, PC, Black
Window material	Polycarbonate, diffuse

onal 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 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

Electrical connection	Cable with connector, M12 × 1, 0.15 m, 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

color. The mispick indicator illuminates if a bin was reached into when the work light was not

Accessories

Technical data

SMB30A	3032723
	Mounting bracket, rectangular, stainless steel, for sensors with 30mm

thread

nm

SMB30SC

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

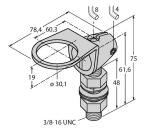
3052521





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



Dimension drawing

Type

WKC4.4T-2/TEL

6625025

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