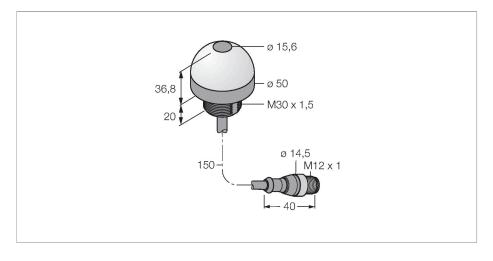


K50APFF100GREQP Pick-to-Light – Placement Sensor Diffuse Mode Sensor with Fixed-field Background Suppression



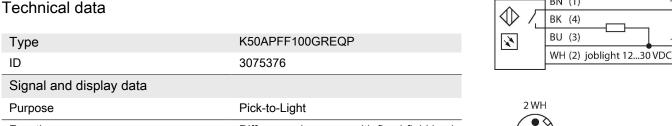
Features

- Protection class IP67
- Cable with M12 × 1 male connector, 4-pin, 150 mm
- Fixed background suppression at 100 mm
- Job light: green
- Mispick: red
- Actuation: not signalled
- Operating voltage 12...30 VDC

BN (1)

- ■PNP switching
- ■NO contact

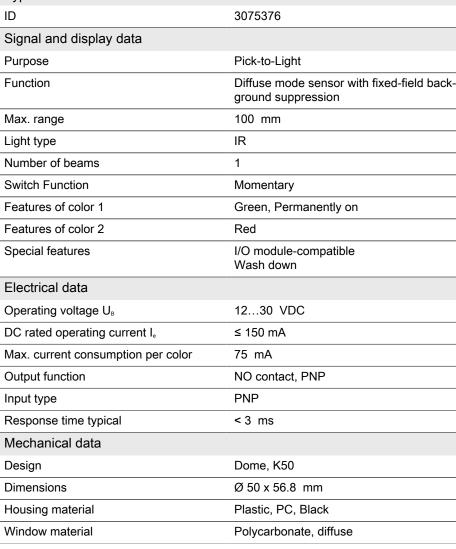
Wiring diagram



l back-	3 BU 1 BN

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 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



K50APFF100GREQP | 04-03-2025 13-15 | Technical modifications reserved

Technical data

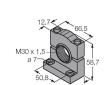
Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40...+50 °C 0...90 % Relative humidity Protection class IP67 **IP69** Tests/approvals **MTTF** 146 years acc. to SN 29500 (Ed. 99) 40 Approvals CE, cULus listed

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

Accessories

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

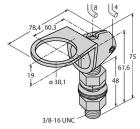
thread



SMB30SC

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





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



า: 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