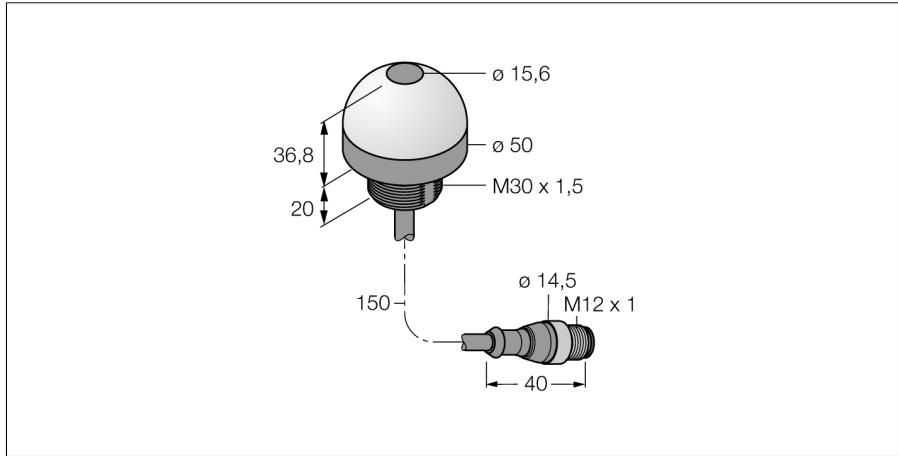
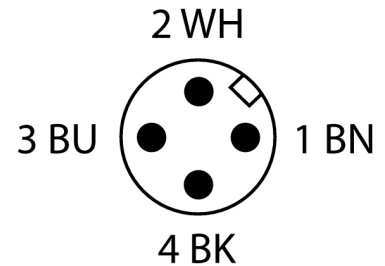
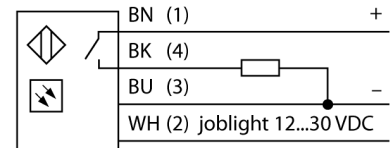


**Pick-to-Light
placement sensor
diffuse mode sensor with fixed-field background suppression
K50APFF100GREQP**



- Schutzart IP67
- 150 mm langes Kabel mit 4-poligem Steckverbinder, M12x1
- Feste Hintergrundaussblendung 100 mm
- Job light: green
- Mispick: red
- Actuation: not signalled
- Operating voltage 12...30 VDC
- PNP switching
- NO contact

Wiring Diagram



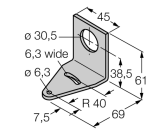
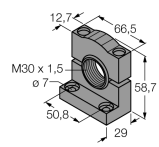
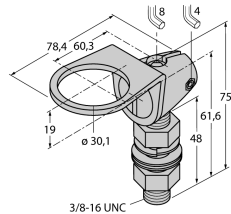
Type designation	K50APFF100GREQP
Ident no.	3075376
Purpose	Pick-to-Light
Operating mode	Diffuse mode sensor with fixed-field background suppression
Design	cylindrical/threaded
Connector designation	K50
Housing material	Plastic, PC
Window material	Acrylic, diffuse
Electrical connection	cable with connector, M12, 4-wire
Electrical design	DC, NO contact, PNP
Cable length	0.15 m
Protection class	IP67
Ambient temperature	-40...+50 °C
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed
Operating voltage	12... 30VDC
DC rated operational current	≤ 150 mA
Response time typical	< 3 ms
Light type	IR

Functional principle

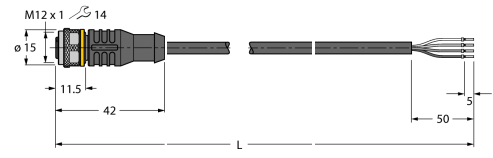
The K50 placement sensor is suitable for many mounting and component placement applications. The entire dome indicates the highly visible green job light or another signal (depending on the version). The transistor output can be easily connected to a system control which is programmed for a special task sequence. The job light of the sensor is located in or beside every container of the component placement station and signals: Detects 1. the containers with the components that have to be picked for a job and 2. the sequence in which they have to be removed. 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 and switches – depending on the configuration – the corresponding job light off and switches on the next job light of the container which is next in the assembly sequence. The control of the working procedure leads to increased efficiency, improved quality control and reduces the rework and testing expense.

**Pick-to-Light
placement sensor
diffuse mode sensor with fixed-field background suppression
K50APFF100GREQP**

Accessories

Type code	Ident no.	Description	
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	
SMB30FA	3074005	Montagewinkel; Werkstoff VA 1.4401	

Wiring accessories

Type code	Ident no.	Description	
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	