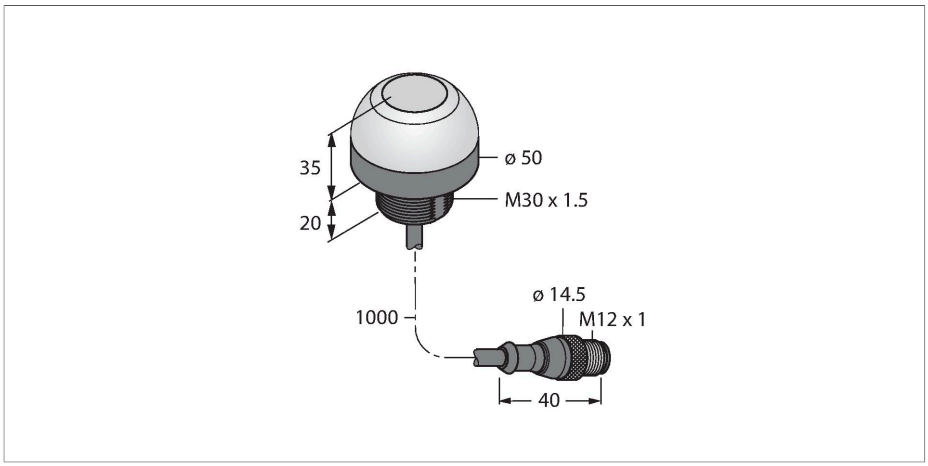
K50RPTRXDQP-800246
Pick-to-Light – Placement Sensor Capacitive Button



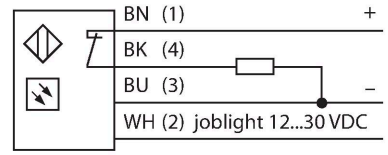
Technical data

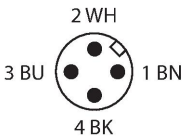
Type	K50RPTRXDQP-800246
ID	3800246
Signal and display data	
Purpose	Pick-to-Light
Function	Touch Button
Switch Function	Momentary
Features of color 1	Red, 13 lm
Special features	I/O module-compatible Wash down
Electrical data	
Operating voltage	12…30 VDC
DC rated operational current	≤ 30 mA
Max. current consumption per color	30 mA
Output function	NC contact, PNP
Input type	PNP
Response time typical	< 50 ms
Mechanical data	
Design	Dome, K50
Dimensions	Ø 50 x 55 mm
Housing material	Plastic, PC, Black
Window material	Polycarbonate, diffuse
Electrical connection	Cable with connector, M12 × 1, 1 m, PVC
Number of cores	4
Ambient temperature	-40…+50 °C
Relative humidity	0…90 %

Features

- Protection class IP67
- Cable with M12 × 1 male connector, 4-pin, 1 m
- Job light: red
- Mispick: not signalled
- Actuation: not signalled
- 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

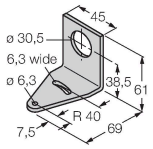
Protection class	IP67 IP69
Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

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 set.

Accessories

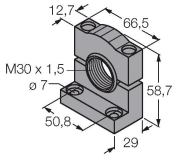
SMB30A 3032723

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



SMB30SC 3052521

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



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Montagewinkel; Werkstoff VA 1.4401