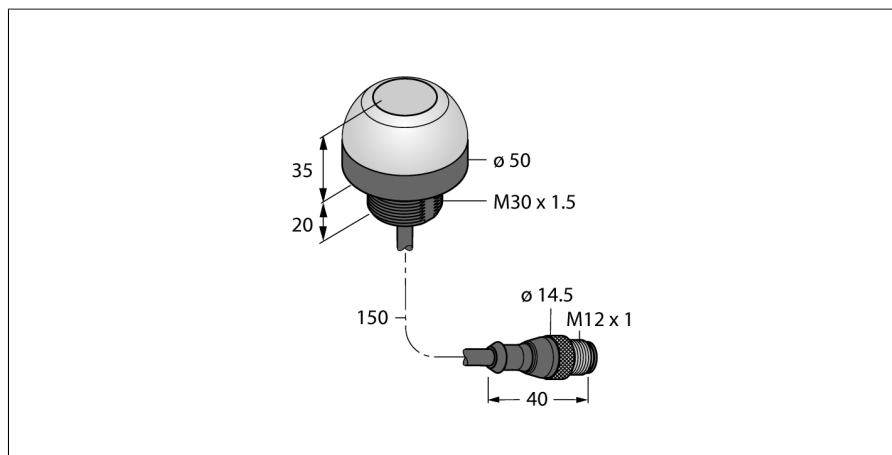


Pick-to-Light Placement Sensor Capacitive Button K50APTGRXD5QP-91415



Type	K50APTGRXD5QP-91415
ID	3091415

Signal and display data	
Purpose	Pick-to-Light
Function	Touch Button
Light type	Green Red
Switch Function	Momentary
Features of color 1	Green, Permanently on, 29 lm
Features of color 2	Red, 13 lm
Special features	Wash down

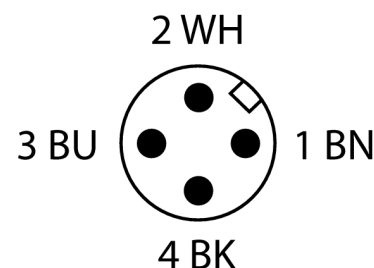
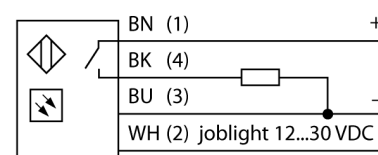
Electrical data	
Operating voltage U_s	12...30 VDC
DC rated operating current I_s	≤ 150 mA
Max. current consumption per color	75 mA
Output function	NO contact, PNP
Input type	PNP
Response time typical	< 50 ms

Mechanical data	
Design	Dome, K50
Dimensions	$\varnothing 50 \times 55$ mm
Housing material	Plastic, PC, Black
Window material	Polycarbonate, diffuse
Electrical connection	Cable with connector, M12 $\times$ 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-40...+50 °C
Relative humidity	0...90%
Protection class	IP67 IP69

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

- Protection class IP67
- Cable with male end M12 x 1, 4-pin, 2 x 150 mm
- 2 work lights green and red
- No indication of misspick
- No indication of actuation
- 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 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

Type code	Ident no.		Dimension drawing
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	