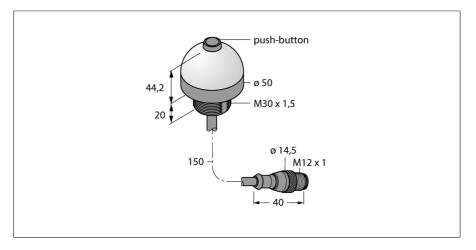


Pick-to-Light **Placement Sensor** K50APPBGYCQP





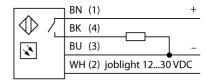
Туре	K50APPBGYCQP	
ID	3032094	
Signal and display data		
Purpose	Pick-to-Light	
Function	Pushbutton	
Switch Function	Momentary	
Features of color 1	Green, Permanently on	
Features of color 2	Yellow	
Special features	Wash down	

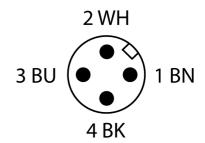
Electrical data	
Operating voltage U _B	1230 VDC
DC rated operating current I.	≤ 150 mA
Max. current consumption per color	75 mA
Output function	NO contact, PNP
Output function Input type	NO contact, PNP PNP

Approvals	CE	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C	
Tests/approvals		
	IP69	
Protection class	IP67	
Relative humidity	midity 090%	
Ambient temperature	-40+50 °C	
Number of cores	4	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC	
Window material	Polycarbonate, diffuse	
Housing material	Plastic, PC, Black	
Dimensions	Ø 50 x 63.7 mm	
Design	Dome, K50	
Mechanical data		

- Protection class IP67
- Cable with male end M12 x 1, 4-pin, 150
- Job light: green
- Mispick: not signalled
- Actuation: yellow
- 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 sys-



tem 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	o 30,5 6,3 wide o 6,3 7,5 R 40 69
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	12,7 66,5 0 7 50,8 29
SMB30FA	3074005	Montagewinkel; Werkstoff VA 1.4401	78.4 60.3 78.4 60.3 75 19 0 30.1 48