

K50APT2GRYC3Q

Pick-to-Light – Placement Sensor

Capacitive Sensor



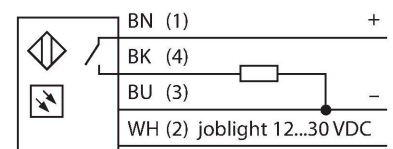
Technical data

Type	K50APT2GRYC3Q
ID	3096674
Signal and display data	
Purpose	Pick-to-Light
Function	Touch Button
Switch Function	Momentary
Features of color 1	Green, Permanently on, 29 lm
Features of color 2	Red, 13 lm
Features of color 3	Yellow, 24 lm
Special features	I/O module-compatible Wash down
Electrical data	
Operating voltage	12...30 VDC
DC rated operational current	≤ 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	Ø 50 x 66 mm
Housing material	Plastic, PC, Black
Window material	Polycarbonate, diffuse
Electrical connection	Connector, M12 × 1, PVC
Number of cores	5
Ambient temperature	-40...+50 °C

Features

- Protection class IP67/IP69K
- M12 × 1 connector
- Job light, green
- Mispick, red
- Actuation, yellow
- Operating voltage 12...30 VDC
- PNP switching
- NO contact
- Capacitive sensor of the second generation
- High immunity to false actuation by splashing, detergents, oils and other contaminants

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

