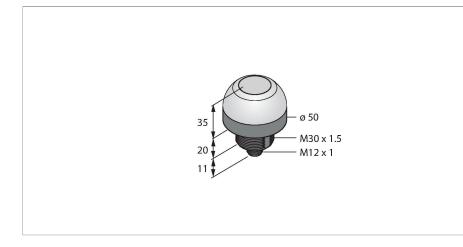


# K50APT2GRBF2Q Pick-to-Light – Placement Sensor Capacitive Sensor



## Technical data

3801186		
Pick-to-Light		
Touch Button		
Green Red Blue		
Momentary		
Green, Permanently on, 29 Im		
Red, 13 Im		
Blue		
Wash down		
1230 VDC		
≤ 150 mA		
75 mA		
NO contact, PNP		
PNP		
< 50 ms		
Dome, K50		
Ø 50 x 66 mm		
Plastic, PC, Black		
Polycarbonate, diffuse		
Connector, M12 × 1, PVC		



## Features

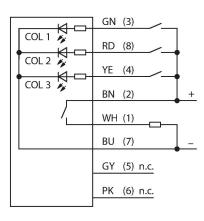
Protection class IP67/IP69K

M12 × 1 connector

- Colors: Green (COL 1), Red (COL 2), Blue (COL 3)
- PNP switching output, 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



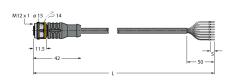
## Technical data

Number of cores	8
Ambient temperature	-40+50 °C
Relative humidity	090 %
Protection class	IP67 IP69
Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

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





Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval



Dimension drawing	Туре	ID	
0 15 14 26.5 32 	WKC8T-2/TEL	6625133	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval