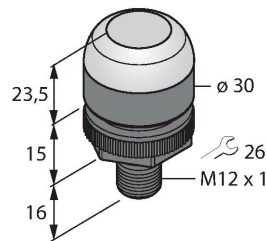


# K30APTGRF2Q

## Pick-to-Light – Placement Sensor

### Capacitive Button



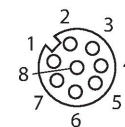
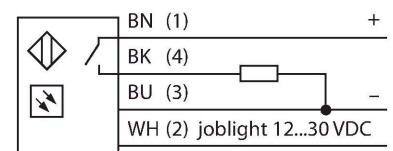
#### Technical data

|                                    |                         |
|------------------------------------|-------------------------|
| Type                               | K30APTGRF2Q             |
| ID                                 | 3085202                 |
| Signal and display data            |                         |
| Purpose                            | Pick-to-Light           |
| Function                           | Touch Button            |
| Light type                         | Green<br>Red            |
| Switch Function                    | Momentary               |
| Features of color 1                | Green, Permanently on   |
| Features of color 2                | Red                     |
| Special features                   | Wash down               |
| Electrical data                    |                         |
| Operating voltage $U_B$            | 12...30 VDC             |
| DC rated operating current $I_o$   | ≤ 150 mA                |
| Max. current consumption per color | 55 mA                   |
| Output function                    | NO contact, PNP         |
| Input type                         | PNP                     |
| Response time typical              | < 150 ms                |
| Mechanical data                    |                         |
| Design                             | Dome, K30               |
| Dimensions                         | Ø 30 x 54.5 mm          |
| Housing material                   | Plastic, PC, Black      |
| Window material                    | Polycarbonate, diffuse  |
| Electrical connection              | Connector, M12 × 1, PVC |
| Number of cores                    | 4                       |
| Ambient temperature                | -40...+50 °C            |

#### Features

- Protection class IP67
- Male M12 x 1, 4-pin
- Job light: green
- Mispick: -
- Actuation: red
- Operating voltage 12...30 VDC
- PNP switching
- NO contact

#### Wiring diagram



#### Functional principle

The K30 pick-and-place sensor is suitable for many assembly and placement sequences. 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

Technical data

|                   |              |
|-------------------|--------------|
| Relative humidity | 0...90 %     |
| Protection class  | IP67<br>IP69 |
| Tests/approvals   |              |
| Approvals         | CE           |

components have to be picked up. If the operator removes a part from the bin, the K30 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

|        |         |
|--------|---------|
| SMB22A | 3079414 |
|--------|---------|

Mounting bracket, stainless steel, for K30L series

