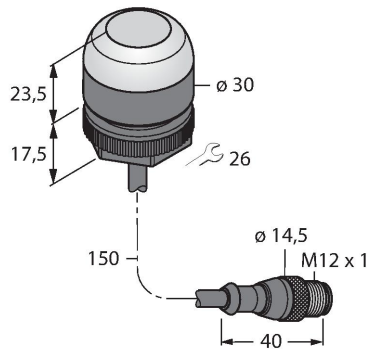


# K30APT2YREQP

## Pick-to-Light – Placement Sensor

### Capacitive Sensor



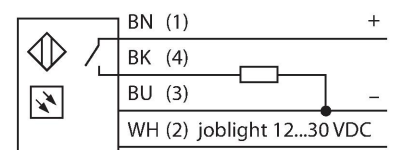
#### Technical data

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Type                               | K30APT2YREQP                               |
| ID                                 | 3805315                                    |
| Signal and display data            |                                            |
| Purpose                            | Pick-to-Light                              |
| Function                           | Touch Button                               |
| Switch Function                    | Momentary                                  |
| Features of color 1                | Yellow, Permanently on, 4.4 lm             |
| Features of color 2                | Red, 1.7 lm                                |
| Special features                   | Wash down                                  |
| Electrical data                    |                                            |
| Operating voltage $U_B$            | 12...30 VDC                                |
| DC rated operating current $I_e$   | ≤ 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 41 mm                               |
| Housing material                   | Plastic, PC                                |
| Window material                    | Plastic                                    |
| Electrical connection              | Cable with connector, M12 x 1, 0.15 m, PVC |
| Number of cores                    | 4                                          |
| Ambient temperature                | -40...+50 °C                               |
| Relative humidity                  | 0...90 %                                   |

#### Features

- Protection classes IP67 IP69K
- Cable with M12 x 1 male connector, 5-pin, 150 mm
- Work light: Yellow
- Mispick: Red
- Actuation not signalled
- 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 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 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

