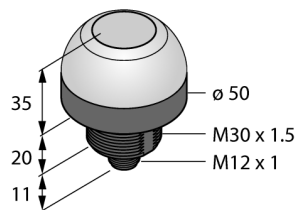


# Pick-to-Light Placement Sensor Capacitive Sensor K30ABT2BRHQ



|      |             |
|------|-------------|
| Type | K30ABT2BRHQ |
| ID   | 3803306     |

|                         |                            |
|-------------------------|----------------------------|
| Signal and display data |                            |
| Purpose                 | Pick-to-Light              |
| Function                | Touch Button               |
| Light type              | Blue<br>Red                |
| LED service life (L70)  | 50000 h                    |
| Switch Function         | Momentary                  |
| Features of color 1     | Blue, Permanently on, 1 lm |
| Features of color 2     | Red, 1.7 lm                |
| Special features        | Wash down                  |

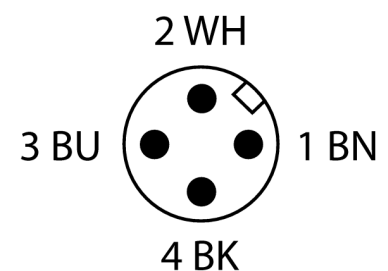
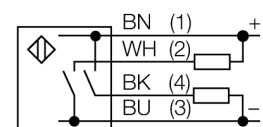
|                                    |                     |
|------------------------------------|---------------------|
| Electrical data                    |                     |
| Operating voltage $U_s$            | 12...30 VDC         |
| DC rated operating current $I_s$   | ≤ 150 mA            |
| Max. current consumption per color | 55 mA               |
| Output function                    | NO contact, PNP/NPN |
| Input type                         | Bipolar (PNP/NPN)   |
| 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 x 1, PVC |
| Number of cores       | 5                       |
| Ambient temperature   | -40...+50 °C            |
| Relative humidity     | 0...90%                 |
| Protection class      | IP67<br>IP69            |

|                 |                  |
|-----------------|------------------|
| Tests/approvals |                  |
| Approvals       | CE, cULus listed |

- Protection classes IP67 IP69K
- M12 x 1 male connector, 5-pin
- Disabled: Blue (COL 1)
- Enabled: Red (COL 2)
- Operating voltage 10...30 VDC
- Bipolar circuit
- NO contact
- Capacitive sensor of the second generation
- High immunity to false actuation by splashing, detergents, oils and other contaminants

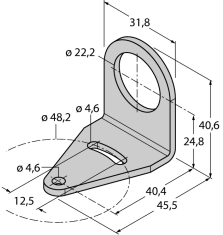
## Wiring Diagram



## Functional principle

The K30 pick-and-place sensor is suitable for many assembly and placement sequences. LED light is reflected perfectly by the entire dome. The device has two display colors depending on the version: Color 1 Shows the disabled state, color 2 the enabled state. Since the device has no inputs, a color change is exclusively realized by touching the sensor (enable). Devices with a hold function keep the enabled state, even when the contact ends.

Accessories

| Type code | Ident no. |                                                    | Dimension drawing                                                                   |
|-----------|-----------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| SMB22A    | 3079414   | Mounting bracket, stainless steel, for K30L series |  |