**FEATURES**
- DC 3-wire PNP sensor
- IP 67 rugged plastic housing
- Hermetically sealed
- Vibration, shock and corrosion resistant
- Small, compact design
- High visibility LED for power and switch status
- Quick Installation

**TECHNICAL DATA**

### General specifications
- **Switching function**: 2 x normally open (NO)
- **Output type**: PNP, 3-wire
- **Rated operating distance**: $s_n \approx 4\, \text{mm}$
- **Installation**: Flush mountable
- **Output polarity**: DC
- **Assured operating distance**: $s_a \approx 0 \ldots 3.24\, \text{mm}$
- **Actual operating distance**: $s_r \approx 3.6 \ldots 4.4\, \text{mm}$ typ.

### Nominal ratings
- **Operating voltage**: $U_b = 10 \ldots 30\, \text{V DC}$
- **Switching frequency**: $f = 0 \ldots 1000\, \text{Hz}$
- **Hysteresis**: $H$ Typ. $5\%$
- **Reverse polarity protection**: Reverse polarity protected
- **Short-circuit protection**: Pulsing
- **Voltage drop**: $U_d \leq 2.5\, \text{V}$
- **Operating current**: $I_1 \approx 0 \ldots 200\, \text{mA}$
- **Off-state current**: $I_0 \approx 0 \ldots 0.5\, \text{mA}$ typ. $0.1\, \mu\text{A}$ at $25^\circ\text{C}$
- **No-load supply current**: $I_{0\, \text{DC}} \approx 22.5\, \text{mA}$
- **Time delay before availability**: $t_v \leq 100\, \text{ms}$
- **Operating voltage indicator**: LED, green
- **Switching state indicator**: LED, yellow

### Ambient conditions
- **Ambient temperature**: $T_A = -25 \ldots 70^\circ\text{C} (-13 \ldots 158^\circ\text{F})$
- **Storage temperature**: $-40 \ldots 85^\circ\text{C} (-40 \ldots 185^\circ\text{F})$

### Mechanical specifications
- **Connection type**: Connector M12 x 1, 4-pin
- **Housing material**: PBT
- **Sensing face material**: PC
- **Degree of protection**: IP67
- **Mass**: $48\, \text{g}$
- **Tightening torque, fastening screws**: M5 x 25 : 2.7Nm

### Compliance with standards and directives
- **Standards**:
  - EN 60947-5-2:2007
  - IEC 60947-5-2:2007
  - EN 60947-5-2/A1:2012
  - IEC 60947-5-2 AMD 1:2012

### Approvals and certificates
- **UL approval**: cULus listed, general purpose
- **CCC approval**: Approval and marking not required for products rated $\leq 36\, \text{V}$
ACTIVATOR AND MOUNTING KITS

<table>
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<th>Code</th>
<th>Description</th>
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<tr>
<td>540638-14800536</td>
<td>Fits Bray S92/93 Sizes 63 to 93 - Imperial</td>
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<tr>
<td>540638-14850536</td>
<td>Fits Bray S92/93 Sizes 63 to 93 and Series 98 - Metric</td>
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<tr>
<td>541198-14800536</td>
<td>Fits Bray S92/93 Sizes 119 to 210 - Imperial</td>
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<tr>
<td>541198-14850536</td>
<td>Fits Bray S92/93 Sizes 119 to 255 - Metric</td>
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WIRING DIAGRAM

CONNECTOR PINOUT

Wire colors in accordance with EN 60947-5-2

<table>
<thead>
<tr>
<th>Pin</th>
<th>Color</th>
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<tbody>
<tr>
<td>1</td>
<td>BN (brown)</td>
</tr>
<tr>
<td>2</td>
<td>WH (white)</td>
</tr>
<tr>
<td>3</td>
<td>BU (blue)</td>
</tr>
<tr>
<td>4</td>
<td>BK (black)</td>
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ACCESSORIES

<table>
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</thead>
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<tr>
<td>090005-76145882</td>
<td>Sensor Cordset - M12 female straight connector (4-pin) to flying leads, 5 meters, zinc</td>
</tr>
<tr>
<td>090004-76145534</td>
<td>Sensor Cordset - M12 female straight connector (4-pin) to flying leads, 5 meters, stainless steel</td>
</tr>
<tr>
<td>600250-23663536</td>
<td>Y-Connector Cordset (S62, S63) - M12 female straight connector (4-pin sensor side) to M12 male straight connector (5-pin system side) AND Form B Type I solenoid connector (DIN 43650)</td>
</tr>
<tr>
<td>600250-23666536</td>
<td>Y-Connector Cordset (S60) - M12 female straight connector (4-pin sensor side) to M12 male straight connector (5-pin system side) AND Form A solenoid connector (DIN 43650)</td>
</tr>
<tr>
<td>630250-21524536</td>
<td>Series 63 - Solenoid Valve, NAMUR mount 3/2 or 5/2, Form B connector (DIN 43560), IP65, single 24vdc coil</td>
</tr>
<tr>
<td>621250-21524536</td>
<td>Series 62 - Solenoid Valve, NAMUR mount 3/2 or 5/2, Form B connector (DIN 43560), IP65, single 24vdc coil</td>
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