SERIES 54 · Inductive Proximity Sensor
General Service
DC 2-wire | 540022-71104533

SENSOR FEATURES
> DC 2-wire sensor
> IP 67 rugged plastic housing
> Hermetically sealed
> Vibration, shock and corrosion resistant
> Small, compact design
> High visibility LED for power and switch status
> Min off state current optimized for PLCs

TECHNICAL DATA

General specifications
Switching function 2 x normally open (NO)
Output type Two-wire
Rated operating distance \( s_1 \) 4mm
Installation Flush mountable
Output polarity DC
Assured operating distance \( s_a \) 0 ... 3.24 mm
Actual operating distance \( s_r \) 3.6 ... 4.4 mm typ.
Output type 2 x 2-wire

Nominal ratings
Operating voltage \( U_B \) 5 ... 30 V DC
Switching frequency \( f \) 0 ... 500 Hz
Hysteresis \( H \) Typ. 5 %
Reverse polarity protection Reverse polarity protected
Short-circuit protection Pulsing
Voltage drop \( U_d \) \( \leq \) 4.5 V
Operating current \( I_L \) 4 ... 100mA
Off-state current \( I_r \) 120 ... 200 \( \mu \)A typ. 175 \( \mu \)A at \(+25^\circ\)C
Time delay before availability \( t_v \) \( \leq \) 100 ms
Switching state indicator LED, yellow
Valve status indicator LED, yellow

Ambient conditions
Ambient temperature \( T_A \) -25 ... +70°C (-13 ... +158°F)
Storage temperature -40 ... +85°C (-40 ... +185°F)

Mechanical specifications
Connection type Connector M12 x 1, 4-pin
Housing material PBT
Sensing face material PC
Degree of protection IP67
Mass 49 g
Tightening torque, fastening screws M5 x 25 : 2.7 Nm

Compliance with standards and directives
Standards EN 60947-5-2:2007
IEC 60947-5-2:2007
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 V
ACTIVATOR AND MOUNTING KITS

<table>
<thead>
<tr>
<th>Mounting Kit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>30 x 80 mm NAMUR Mounting, non adjustable</td>
<td>54063B-14850536 Fits Bray S92/93 Sizes 63 to 93 and Series 98 - Metric 54063B-14800536 Fits Bray S92/93 Sizes 63 to 93 - Imperial</td>
</tr>
<tr>
<td>30 x 130 mm NAMUR Mounting, non adjustable</td>
<td>54119B-14850536 Fits Bray S92/93 Sizes 119 to 255 - Metric 54119B-14800536 Fits Bray S92/93 Sizes 119 to 210 - Imperial</td>
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</tbody>
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ACCESSORIES

<table>
<thead>
<tr>
<th>Accessory Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>090005-76145882</td>
<td>Sensor Cordset - M12 female straight connector to flying leads, 4-pin, 5 meters, zinc</td>
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<tr>
<td>090004-76145534</td>
<td>Sensor Cordset - M12 female straight connector to flying leads, 4-pin, 5 meters, stainless steel</td>
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WIRING DIAGRAM

CONNECTOR PINOUT

Wire colors in accordance with EN 60947-5-2

1 BN (brown) 2 WH (white) 3 BU (blue) 4 BK (black)