Capacitive sensor
BC10-QF5.5-AP6X2

Type designation | BC10-QF5.5-AP6X2
Ident no. | 2620117

Rated switching distance (flush) | 10 mm
Rated switching distance (non-flush) | 10 mm
Secured operating distance | ≤ (0.72 x Sn) mm
Hysteresis | 2...20 %
Temperature drift | type 20 %
Repeatability | ≤ 2 % of full scale
Ambient temperature | -25...+70 °C

Operating voltage | 10...30 VDC
Residual ripple | ≤ 10 % Ue
DC rated operational current | ≤ 200 mA
No-load current | ≤ 15 mA
Residual current | ≤ 0.1 mA
Switching frequency | 0.1 kHz
Isolation test voltage | ≤ 0.5 kV
Output function | 3-wire, NO contact, PNP
Short-circuit protection | yes/Cyclic
Voltage drop at Ie | ≤ 1.8 V
Wire breakage/Reverse polarity protection | yes/Complete

Approvals | UL

Design | Rectangular, QF5.5
Dimensions | 54 x 20.3 x 5.5 mm
Housing material | Plastic, PP
Active area material | Plastic, PP
Electrical connection | Cables
Cable quality | Ø 3 mm, LI9Y-11Y, PUR, 2 m
Cable cross section | 3 x 0.14 mm²
Vibration resistance | 55 Hz (1 mm)
Shock resistance | 30 g (11 ms)
Protection class | IP67
MTTF | 1080 years acc. to SN 29500 (Ed. 99) 40 °C
Packaging unit | 1

Power-on indication | LED, Green
Switching state | LED, Yellow

Functional principle
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.
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<table>
<thead>
<tr>
<th>Distance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance D</td>
<td>40 mm</td>
</tr>
<tr>
<td>Distance W</td>
<td>30 mm</td>
</tr>
<tr>
<td>Distance S</td>
<td>30 mm</td>
</tr>
<tr>
<td>Distance G</td>
<td>60 mm</td>
</tr>
</tbody>
</table>

| Diameter active area B | Ø 20 mm |

The given minimum distances have been checked against the standard switching distance. Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.