



Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function Capacitive sensors

Design verification as per IEC/EN 61439

Product range E53 Capacitive Series

Technical data ETIM7.0

Connection 3-wire

Approvals

Design (outer dimensions) M30 x 1.5 mm

Dimensions

Rated operational voltage [U_e] 10 - 30 V DC

Rated switching distance $[S_n]$ 20 mm

Type of mounting Flush

Switching type PNP

For connection of: Plug-in connection M12 x 1

Contacts

NO = Normally open 1 NO Material Insulated material

Degree of Protection IP65

TECHNICAL DATA General Standards IEC/EN 60947-5-2-EMC Ambient temperature -25 - +70 Mechanical shock resistance Shock duration 11 ms g Degree of Protection IP65 Characteristics Rated switching distance Rated switching distance $[S_n]$ 20 mm Repetition accuracy of S_n Temperature drift of S_n 10 % Switching hysteresis of $S_{\!n}$

Rated operational voltage $[U_e]$ 10 - 30 V DC

Residual ripple of $\,U_{\!e}\,$ 10 %

 $\begin{array}{l} \text{Maximum load current } \left[I_{e}\right] \\ < 300 \text{ mA} \end{array}$

Operating current in the switched state at 24 V DC [I_b] 10 mA

Voltage drop at $I_e[U_d]$ 2 V

Switching Frequency 250 Hz Residual current through the load in the blocked state at 230 VAC and 24 VDC[I_r] 0.1 mA Switching state display Red LED Protective functions Short-circuit protective device Protection against polarity reversal Protection against wire breakage Connection 3-wire Contacts N/O = Normally open 1NO Style Design (outer dimensions) MB0 x 1.5 mm For connection of: Plug-in connection M12 x 1 Material Insulated material **DESIGN VERIFICATION AS PER IEC/EN 61439** Operating ambient temperature min. -25 °C Operating ambient temperature max. +70 °C **TECHNICAL DATA ETIM 7.0** Sensors (EG000026) / Capacitive proximity switch (EC002715)

Bectric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology

/ Proximity switch / Capacitive proximity switch (ecl@ss10.0.1-27-27-01-02 [AGZ377015])

3/7

Width sensor 0 mm

Height of sensor 0 mm
Length of sensor 80 mm
Diameter sensor 30 mm
Mechanical mounting condition for sensor Concise
Switching distance 20 mm
Suitable for safety functions No
Type of switch function Normally open contact
Type of switching output FNP
Type of electric connection Connector M12
Number of semiconductor outputs with signalling function 1
Number of contact energized outputs with signalling function 0
Number of protected semiconductor outputs 0
Number of protected contact energized outputs 0
Type of actuation Other
Type of interface None
Type of interface for safety communication None
Construction type housing Cylinder, screw-thread
Coating housing Other

Category according to EN 954-1 В SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Max. output current at protected output $0\,\text{mA}$ Supply voltage 10 - 30 V Rated control supply voltage Us at AC 50HZ 0-0V Rated control supply voltage Us at AC 60HZ 0-0V Rated control supply voltage Us at DC 10 - 30 V Voltage type DCSwitching frequency 250 Hz With monitoring function downstreamswitching devices With status indication Yes Material housing **Pastic** Compression-resistant Nb Explosion safety category for gas None Explosion safety category for dust None

Cascadable No Product Standards
CE marking

Max. Voltage Rating
250 V AC, 30 V DC

Degree of Protection IEC: IP65; UL/CSA: NEVA 4, 12, 13

DIMENSIONS



□ Sensitivity setting







