



SENSOR IQ40-20BPPKC0K

URL: https://www.sxplc.com/index.php?route=product/product&product_id=5208

Product data sheet

Product Characteristics

Design Structure Square

Housing shape short

Dimensions (W x H x D) 40 mm x 40 mm x 66 mm

Trigger sensing distance Sn 20 mm

Safe connection distance Sa 16.2 mm

Mounting on metal Flush mounting

Switching frequency 150 Hz

Connection type Plug, M12, 4-pin

Switching output PNP

Output function Compensation

Electrical specifications DC 4-wire

Protection class IP67, IP68, IP69K

Special applications Harsh operating conditions

Scope of delivery Push-lock mounting system (1 x)

Mechanical/electrical parameters

Supply voltage 10 V DC ... 30 V DC

Residual ripple ≤ 10 Vss

1)

Voltage drop ≤ 2 V

□ Delay time before operation after power-on (proximity sensor) ≤ 50 ms

Hysteresis 3 % ... 15 % 2)

Reproducibility ≤ 2 %

Temperature drift (Sr

) $\pm 10 \%$

Continuous current $I_a \leq 200 \text{ mA}$

No-load current 12.5 mA

Short-circuit-proof ✓

Reverse polarity protection ✓

Energized pulse protection ✓

Shock and vibration resistance 30 g, 11 ms / 10 ... 55 Hz, 1 mm

Operating temperature $-25 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$

Warehouse ambient temperature $-40 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$

Housing material Plastic, PA 66

Material, sensing surface Plastic, PA 66

Max. tightening torque 1.8 Nm

Protection class II 3)

UL file number E348498

1) From Ub.

2) From Sr.

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3) Rated voltage: 50 V DC.

Safety specifications

MTTFD 1,125 years

DCavg 0 %

TM (continuous operation time) 20 years

Reduction factor

These data are only indicative and may be subject to deviations.

Stainless steel (V2A) approx. 0.71

Aluminum (Al) approx. 0.3

Copper (Cu) approx. 0.25

Brass (Ms) approx. 0.36

Installation instructions

See "Installation Instructions" for illustrations.

A 0 mm

B 40 mm

C 40 mm

D 60 mm

E 0 mm

F 70 m

