



ENGLISH

# Datasheet

## Stock No. 146-6755

### RS PRO Capacitive Sensor



#### Specifications:

Mounting: Flush

Rated distance  $S_n$ : 2mm (Adjustable)

Assured distance  $S_a$ : 0...1.6mm

Shape size: M12\*65mm

Output way: PNP

Output status: NO

Supply voltage: 10...30 VDC

Standard target: Fe 12\*12\*1t

Switch point offset[%/Sr]:  $\leq \pm 20\%$

Hysteresis range [%/Sr]: 3...20%

Repeated error:  $\leq 3\%$

Load current:  $\leq 200\text{mA}$

Residual voltage:  $\leq 2.5\text{V}$

Current consumption:  $\leq 15\text{mA}$

Protection circuit: Short-circuit protection, overload protection and reverse polarity protection

Output indicator: Yellow LED

Ambient temperature:  $-25^\circ\text{C} \dots 70^\circ\text{C}$

Ambient humidity: 35-95%RH

Switch frequency: 50 Hz

High pressure resistance: 1000V/AC 50/60Hz 60s

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Insulation resistance:  $\geq 50\text{M}\Omega(500\text{VDC})$

Vibration resistance: Complex amplitude 1.5mm 10...50Hz(2H per X,Y,Z direction)

Protection degree: IP67

Housing material: Nickel-copper alloy

Connection: M12 connector

## **Features:**

Contactless detection, no damage to the detected target;

High detection precision and fast response frequency;

Able to detect metal and nonmetal objects,with wider application;

Different media in the container can be detected by a non-metallic tube wall.