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Model Number

UJ4000-FP-E2-P1

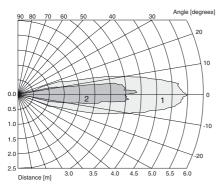
Single head system

Features

- Absolute polarity reversal protection
- 1 switch output
- **Program input**
- **Reflex sensor function**

Curves

Characteristic response curves



Curve 1: flat surface 100 mm x 100 mm Curve 2: round bar, Ø 25 mm

Technical data

General	specifications
acriciai	Specifications

Sensing range 1000 ... 4000 mm Operating range 0 ... reflector distance s_R - 6 % Standard target plate 100 mm x 100 mm Transducer frequency approx. 85 kHz Response delay ≤ 900 ms, for programming with +U_B \leq 150 ms for programming with -U_B

Indicators/operating means

LED yellow	switching state switch output
LED red/green	green LED: Power on red LED, flashing at 2 Hz: error (reflector incorrectly positioned)
Electrical specifications	

20 ... 30 V DC , ripple 10 $\%_{SS}$ Operating voltage U_B

No-load supply current I₀ ≤ 90 mA

Input

1 program input, Input type operating distance 1: -U $_{\rm B}$... (-U $_{\rm B}$ +2 V), operating distance

2: $(+U_B -2 V) \dots +U_B$

Output

Output type	1 switch output, NO pnp
Rated operational current I _e	200 mA, short-circuit/overload protected
Voltage drop U _d	≤ 3 V
Ambient conditions	
Ambient temperature	-10 50 °C (263 323 K)
Storage temperature	-40 85 °C (233 358 K)
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Mechanical specifications Protection degree IP65

Connection terminal compartment, ≤ 2.5 mm² conductor csa

Material Housing

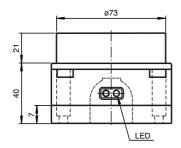
epoxy resin/hollow glass sphere mixture; polyurethane foam Transducer Mass 320 g

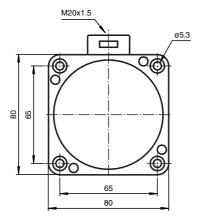
Compliance with standards and

directives

Standard conformity Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

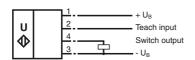
Dimensions





Electrical Connection

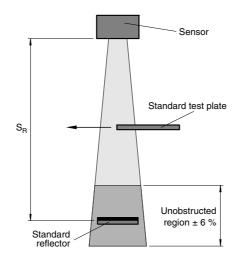
Standard symbol/Connection:



Description of the sensor functions

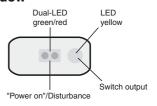
The measurement of the distance is realised using the echo time of ultrasonic pulses. After installation, the transmitter is taught with the distance to a stationary reflector and stores this value by shorting the TEACH-IN input with -UB or +UB (see Electrical Connection). The distance determined in this manner is retained for as long as required when the power supply is shut off. If an interruption of the barrier by an object is determined during operation, switch output is closed.

If objects smaller than the standard measuring plate are to be detected, the reflector must also be reduced in size accordingly. This may result in a reduction of range.



Additional Information

LED-Window



Accessories

PA-02

Accessories

MH 04-3505

Mounting aid

MHW 11

Mounting aid