Single head system UC300-30GM-IU-V1

查询"44828"供应商

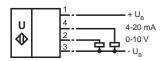


Features

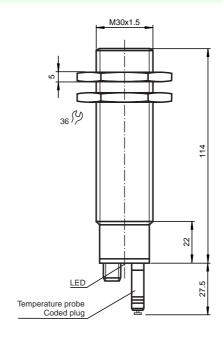
- Extremly small unusable area only
- Current and voltage output
- 12 bit D/A transducer
- Evaluation limits can be taught-in
- Temperature compensation
- Compact construction
- Plug connection

Electrical connection

Standard symbol/Connection:



Dimensions



CE

Technical data

General specifications

Sensing range 15 ... 300 mm 100 mm x 100 mm Standard target plate Unusable area 0 ... 15 mm approx. 380 kHz Transducer frequency Response delay ≤ 35 ms Standard conformity EN 60947-5-2

Indicating/Operating means LED yellow

permanently yellow: object in the evaluation range yellow, flashing: Teach-in function evaluation limits, slope LED red/green permanent green: Power on green, flashing: TEACH-IN function, object detected permanently red: Connector removed red, flashing:

Error, teach-in function object not detected

Temperature/TEACH-IN connector Temperature compensation, TEACH-IN of the switch points, output function change over

Electrical specifications

Rated operational voltage Ue Power consumption

Output

Output type Repeat accuracy

Resolution

Deviation of the characteristic

curve

Load impedance

Temperature influence

Ambient conditions Ambient temperature

Storage temperature Mechanical specifications

Protection degree Connection type Material

Housing

Transducer

Mass

10 ... 30 V DC, ripple 10 %SS

≤ 800 mW

1 current output 4 ... 20 mA 1 voltage output 0 ... 10 V ≤ 0.1 % of final value

0.172 mm

 \leq 0.2 % of final value

current output: ≤ 500 Ohm Voltage output: ≥ 1000 Ohm < 2 % of full-scale value

(≤ 0.2 % / K without temperature compensation)

0 ... +50 °C (273 ... 323 K) -40 ... +85 °C (233 ... 358 K)

IP65 according to EN 60529 V1 connector (M12 x 1), 4 pin

high grade steel (stainless)

epoxy resin/hollow glass sphere mixture; foam polyurethane, cover

PBT

175 g

Note

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Notes:

This ultrasonic sensor features a four-pole temperature/TEACH-IN plug that can be connected in four different positions. These have the following significance.

Plug position	Meaning
A1	Teach evaluation limit A1
A2	Teach evaluation limit A2
E2/E3	Switching: falling/rising ramp
Т	Temperature compensation

Description of the TEACH-IN procedure:

- Remove temperature plug
- Cut and restore supply voltage (e.g. by removing and replacing unit plug)

TEACH-IN of evaluation limits A1 and A2:

- Set object to desired evaluation limit
- Connect TEACH-IN plug in pos. A1 or A2
- Green LED flashes when object detected, red LED flashes when no object detected
- Pull the plug (the current object position is taught and stored when the plug is removed!)

TEACH-IN of output function:

- Connect TEACH-IN plug in pos. E2/E3
- The yellow LED indicates the output function
- E2: falling ramp
- E3: rising ramp
- Pull the plug when the desired function is activated, otherwise reconnect the TEACH-IN plug in pos. E2/E3
- Pull plug

Completing the TEACH-IN procedure:

- Connect TEACH-IN plug in pos. T. Temperature compensation is now activated.

Note:

If the temperature plug has not been plugged in within 5 minutes, the sensor will return to normal mode without temperature compensation.

Displays depending on position of temperature/ TEACH-IN plug position	Green dual LED	Red dual LED	Yellow LED A1/ ¯\	Yellow LED A2/ J
Teach switching point output A1 Object detected No object detected	Flashing Off	Off Flashing	Flashing Flashing	Off Off
Teach switching point output A2 Object detected No object detected	Flashing Off	Off Flashing	Off Off	Flashing Flashing
TEACH-IN of switch output functions: E2: 2 independent switching positions E3: window function	On On	Off Off	Flashing Off	Off Flashing
Normal mode, temperature compensated	On	Off	on/off 1)	on/off 1)
Plug pulled or shorted	Off	On	on/off 1)	on/off 1)
Interference (e.g. compressed air)	Off	Flashing	Previous state	Previous state

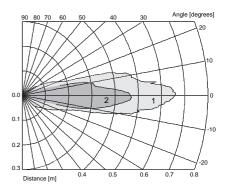
¹⁾ on: object within evaluation range; off: no object within evaluation range

Model number

UC300-30GM-IU-V1

Characteristic curves/ Additional information

Characteristic response curves



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

Programmed analogue output function

