sensor ultrasonic



PRODUCT: ultrasonic diffuse reflection sensor

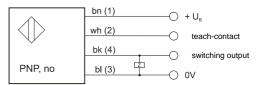
DESIGN: 12 M12x1

- very small beam angle
- filling level monitoring in small containers, Ø 25mm possible
- integrated amplifier
- teach-in switching point adjustment
- teach-in via white wire (PIN 2) or plug-in adapter
- green LED for status and teach-in control
- housing, nickel plated brass
- connection with M12-connector
- delivery in storage box

technical data

12 30V DC
< 30mA
\leq 2V DC
pnp, no, max. 200mA
25 200mm
10mm
≤ 3mm
≤ 0.8mm
380kHz
6°
≤ 10ms
0 +60°C
IP 67 to EN 60529
nickel plated brass
M12-connector, 4-pin
e.g. VK200321

connection



70

bn = brown, wh = white, bk = black, bu = blue terminal marking of the cable socket in brackets

articel-number

ultrasonic sensor:	UT 12 01 20
teach-in-adapter:	AU 00 00 11

notes for switching point adjustment (teach-in)

- Connect voltage supply and switching output, the teach-in process must take place within 5 minutes time.
- Connect the teach-contact (white wire / PIN 2) with +UB for approximately 2sec untill green LED flashes.
- Open the connection, green LED flashes.
- Bring the object to be detected into the detection range desired (25 ... 200mm).
- Connect the teach-contact (white wire / PIN 2) with +UB. The sensor confirms the successful teach-process by lighting up the green LED for 2sec.
- To prevent the adjustment of the sensor from being altered without authorization the teach-in lock comes into action five minutes after switch-on or after the teach-process. To start a new teach-in process please disconnect the voltage supply. If no teach-in process follows the connection of the voltage supply the sensor works with the detection range last set.
- To reset the sensor to the maximum detection range please connect the teach-contact with +UB for more than 6sec. The sensor confirms the reset by rapid flashing of the green LED
- If the teach-contact is not used please connect it to GND.
- To simplify the teach process an adapter is obtainable. It has to be plugged-in between conntector and sensor. This adapter closes the teach-contact via a push button. When using the teach-in adapter the white wire of the connector must not be connected! A 3-pin connector e.g.VK200021, is sufficient in this case.

Warning: Never use the devices in applications where the safety of a person depends on their functionality!

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