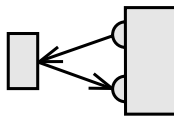


Retro-reflective Photoelectric Sensor

查询"49653"供应商



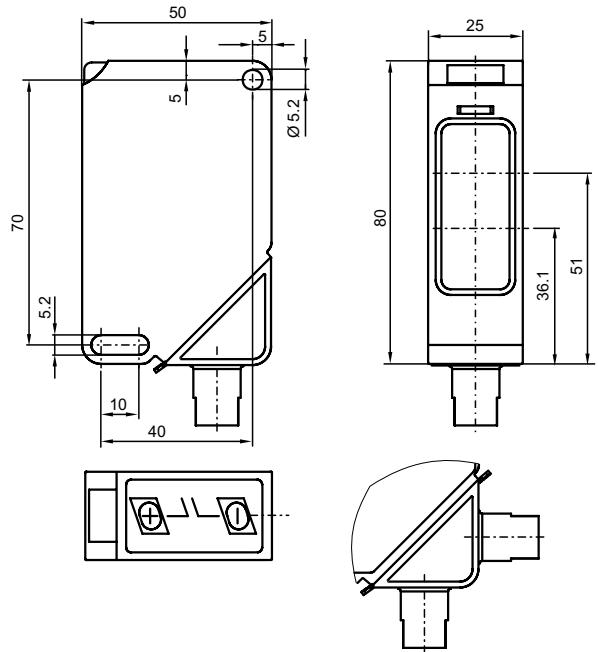
OCT1500-F44- □ *1 - □ *2



1500 mm

Features

- Energetic switch for standard applications
- 1500 mm adjustable sensing range
- Automatic adjustment of the switch points (sensitivity) through "TEACH IN"
- Visible red light
- Failure warning indication and output (static, dynamic)
- Control / test input
- Programming via optical interface (e.g. freely selectable time steps)
- Connector (M12x1) - adjustable through 90°
- Protection class min. IP 67

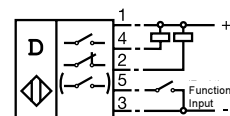


Cable sockets, mounting aids etc. see catalogue "Sensors 2"

e. g. Cable sockets: V15-G-2M-PVC (straight)
V15-W-2M-PUR (angled)

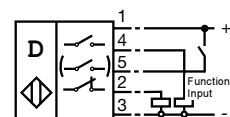
Electrical Connection

A0



- 1 - Supply +
- 2 - Inverted output or failure warning output (programmable)
- 3 - Supply -
- 4 - Switch output
- 5 - Multifunction input

A2



09/88 01

F000312E

*1 - electrical connection
*2 - mechanical connection

Technical Data

| | |
|---------------------------------|--|
| Model number | OCT1500-F44-A2-V15 |
| 查询"49653"供应商 | OCT1500-F44-A0-V15 |
| Sensing range | 0 mm ... 1500 mm |
| Reference card size | Standard white card 100 mm x 100 mm |
| Adjustment range | 150 mm ... 1500 mm |
| Adjustment of the sensing range | - stepwiese „+“ or „-“ buttons - automatic through „Teach In“ |
| Max.switch frequency | 1 kHz (Pulse : Pause 1:1) |
| Min. response time | 500 µs |
| Readiness delay | < 50 ms, with standardised switch-on |
| Distance hysteresis | Programmable |
| Light source | Visible red light 660 nm |
| Operating temperature | -25 °C ... +70 °C |
| Temperature drift | +/-0.05 % / K |
| Storage temperature | -40 °C ... +70 °C |
| Ambient light limit | Sunlight ≤ 10 000 Lux Halogen light ≤ 7 500 Lux |
| Indicators | LED yellow LED red LED green |
| Electrical Data | |
| Rated operational voltage | 10...30 V DC, +/- 10% ripple Overvoltage protection, reverse polarity protection |
| Current requirement | approx. 25 mA |
| Function input | |
| Internal resistance | > 20 kOhm |
| switching threshold for | |
| PNP-variation | deactivated < 3 V or undamped, activated > 7 V |
| NPN-variation | deactivated > 7 V or undamped, activated < 3 V |
| Reaction time | < 3 ms |
| Switch outputs | NPN or PNP, antivalent or switch output and failure warning output (programmable) |
| Voltage drop | ≤ 2.5V |
| Contacting load | 200 mA, circuit / overload proof |
| Mechanical Data | |
| Protection class to IEN 60 529 | IP 67 |
| EMC | Grade 3, CE-konform, EN 60947-5-2 Annex X |
| Housing | ABS, B x H x T: 25 mm x 80 mm x 50 mm |
| Connector | PA |
| Connection type | V15-connector 5-pin, adjustable through 90° |
| Optical system | PMMA double lens |
| Material front lense | Scratch resistant plastic lens, PMMA |
| Weight | 50 g |
| Conforms to | EN 60 947-5-2 |

Notes

Others:

- Fully automatic teach-in, static and dynamic, up to maximum switching frequency.
- Teach-in of operating distance or optimum threshold setting.
- Self test.
- Reset function for factory setting.
- Repeat function (key pressure sensitivity setting)

Remark:

Once the parameterization disable has been activated, it can only be removed by resetting to the factory setting.

Parameter setting:

Parameterization via optical interface (PC or hand-Held).

- **Parameters:**
- NC or NO response
Light ON or Dark ON
- statical or dynamical function
reverse
- antivalent outputs or switch
output and stability control output

- **Multifunction input:**

- Test input
(switch-off the emitter)
- Logic-Function:
AND-, OR- or XOR-
Logic-Operation
- Light/Dark-changeover input
- Function reserve test input
(normal operation with half
transmission power)
- Teach-In (level controlled)
- Output-hold

all input functions can be inverted
logically

- **Switchingfrequency:**

- 20 Hz, 50 Hz, 100 Hz, 250 Hz,
500 Hz, 1 kHz for application-
optimized interference
suppression

- **Pulse frequency:**

- 3 different frequencies as
protection against mutal
influence.

- **Keypad interlock:**

- ON delay 0.1 s to
25.5 s in 0.1 s -steps
- OFF delay 0.1 s to
25.5 s in 0.1 s -steps
- limit timer 1 ms to
255 ms in 1 ms -steps
- one shot 1 ms to
255 ms in 1 ms -steps

The functions may be combined

- **Hysteresis:**

- small
- standard
- large

- **Keypad interlock:**

- off (keypad always on)
- automatic (Press both keys for
at least (ca. 5s) to activate
keypad. It will be locked
automatically after 4 min.)
- always (keypad is locked
permanently)

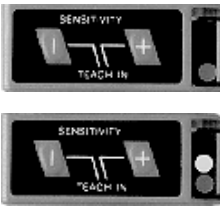
- **Parameterization disable:**

- off
- on

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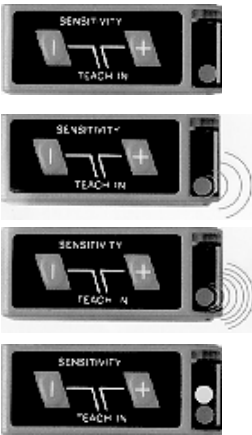
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Manual setting



Object

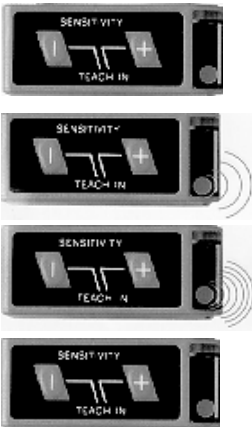
Static TEACH IN



Object

Object

Dynamic TEACH IN



Object



Setting options:

- **Manual** (use membrane keypad)
- **TEACH IN** static operation
- **TEACH IN** dynamic operation

Manual setting

- 1) If necessary, simultaneously depress the "+" and "-" keys for 5 s (until the green LED flashes briefly). the sensor is now "unlocked".
- 2) Place the object with is to be detected at the required position within the detection range. The sensitivity of the sensor can now be set by means of the "+" and "-" keys (the red LED flashes on every key press and the yellow LED indicates the switching status). The keys are provided with a repeat-function (key actuation is automatically repeated if the key is pushed for a longer time). The sensitivity setting is retained even when the operating voltage is switched off.

Note: If the red LED does not flash when a key is pressed, the end stop of the key potentiometer has been reached.

TEACH IN of objects at a fixed point (static operation)

- 1) If necessary, simultaneously depress the "+" and "-" keys for 5 s (until the green LED flashes briefly). The sensor is now "unlocked".
- 2) Depress the "+" and "-" keys simultaneously (for approx. 1 s), until the red LED is extinguished. The sensor is now in "Learning mode". This is indicated by the green LED flashing (at 2 Hz).
- 3) Place the object to be detected at the required position in the detection range. The green LED flashes briefly at a higher frequency (4 Hz). As soon as the LED flashes again at the output frequency, the teaching process is concluded.
- 4) In order to terminate the TEACH IN process, either one of the "+" or "-" keys must be pressed. The green LED becomes lit continuously and the yellow LED indicates detection of the target. If the object is removed, the yellow LED is extinguished.

TEACH IN of moved objects (dynamic operation)

- 1) If necessary, simultaneously depress the "+" and "-" keys for 5 s (until the green LED flashes briefly). the sensor is now "unlocked".
- 2) Depress the "+" and "-" keys simultaneously (for approx. 1 s), until the red LED is extinguished. The sensor is now in "Learning mode". This is indicated by the green LED flashing (at 2 Hz).
- 3) Traverse the detection range with the objects that are to be detected (one object may be enough) at a desired distance perpendicular to the sensing axis. The green LED flashes briefly at a higher frequency (4 Hz). The TEACH IN is finished if the LED is blinking constantly with the output frequency also when the object is moved several times.
Note: It's possible that the very briefly change of the flash frequency is hardly recognizable.
- 4) In order to terminate the TEACH IN process, either one of the "+" or "-" keys must be pressed. The green LED becomes lit continuously and the yellow LED indicates the switching status.