

OT18E285

sensor optical, red light

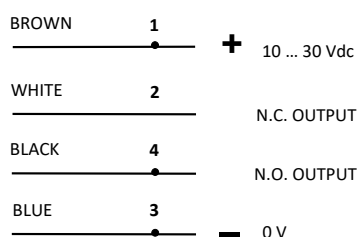
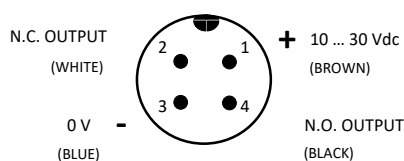
- / simple setting via teach button
- / LED display
- / background suppression
- / visible red light
- / short circuit proof and reverse polarity protected



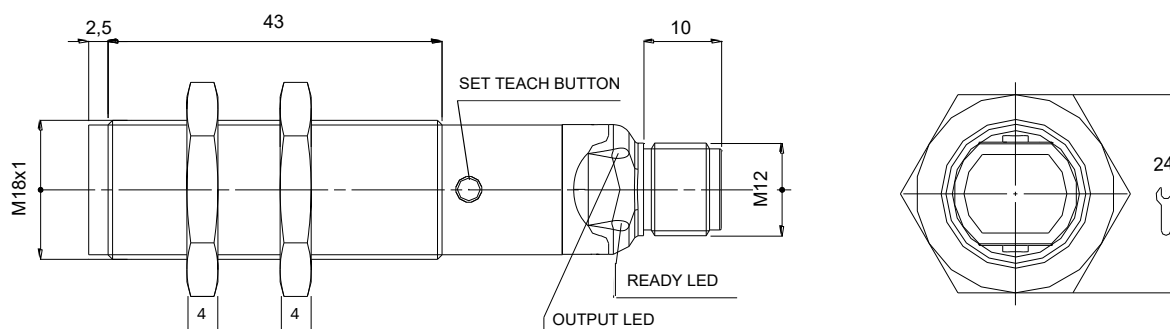
technical specifications

operating voltage	10 ... 30 V DC
output current	< 100 mA
current consumption	≤ 30 mA
operating distance	50 ... 150 mm
switching frequency	500 Hz
emission type	LED red 630 nm
output	pnp no/nc
setting	teach button
response time	1 ms
LED indicators / Ready / Error	yellow / green / red
mechanical protection	IP 67
operating temperature	-25°C ... +55°C
connection	M12-connector 4-pole Nickel plated brass / PMMA
housing material / lens material	

connection assignment



dimensions:



Display and operating elements:**OUTPUT LED**

The yellow LED ON indicates that the N.O. (normally open) output status is closed.

READY LED

The green LED indicates a normal operating function.

If the green LED flashes, the acquisition has failed.

Please refer to the "SETTING" paragraph for setup procedure indications.

SET TEACH BUTTON

A long keystroke on the teach button activates the self-setting procedure.

Setting:

The sensor has a teach button. This always guarantees a fast, precise and automatic setting of the switching threshold.

Two different settings are possible:

Teach 1: a long keystroke of the Teach button activates the setting procedure.

Teach 2: (fine detection), to be used only in particularly critical conditions; this setting procedure is used only when the standard detection is not sufficient.

To achieve a correct sensor setting, the background or the object to be suppressed has to be present during self-setting.

Teach 1 (standard setting):

Place the background or the object to be suppressed inside the operating range. Press the SET pushbutton until the READY LED turns OFF (1s). Release the SET pushbutton and wait for the READY LED to turn ON (green). The sensor is now ready to detect all objects in the set range distinguishing them from the suppressed background.

Teach 2 (fine detection):

Place the background or the object to be suppressed inside the operating range. Press the SET teach button. The READY LED (green) turns OFF.

Keep the SET teach button pressed until the READY LED turns on (3s/green). The sensor performs a fine adjustment and is ready to detect objects also very near the suppressed background.

If the green LED flashes, the acquisition has failed.