

V10C / V10D (-00 / -01 / -02 / -03)

Max. frequency response 1kHz

Power supply indicator LED green (PWR)

Operating voltage 15 ... 30VDC (max.)

Output signal
V10C: 0 - 10V
 (Lastwiderstand Rmin 2kOhm)
V10D: 4 - 20mA
 (RL max 500 Ohms)

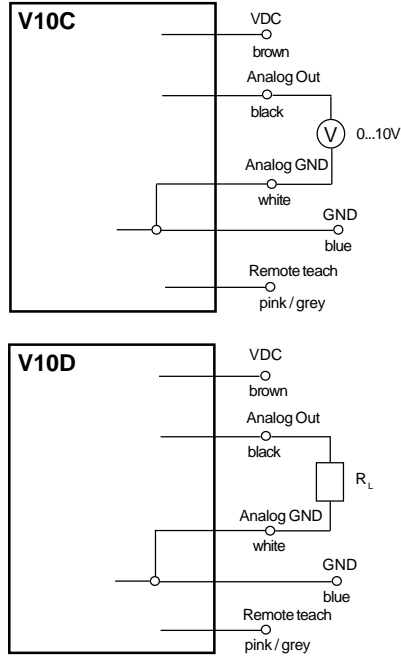
Current consumption
 (Ø / peak)
V10C: 45mA / 180mA
V10D: 45mA / 180mA

Weight 65g
 Casing material ABS
 Operating temperature -10°C bis +55°C
 Protection class IP65

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www.stmsensors.de

Wiring

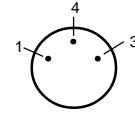


Connection

Sensor

Standard: -0X
 M8, 3pole

- 1 + emitter
- 4 GND/shielding
- 3 + receiver



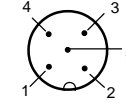
In-/Output

Standard -00:
 PVC-cable, 5pole, 2m

- brown + VDC
- white analog GND
- blue - GND
- black analog out
- pink remote teach

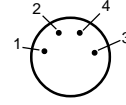
option-01:
 M12, 5pole

- 1 (brown) + VDC
- 2 (white) analog GND
- 3 (blue) - GND
- 4 (black) analog out
- 5 (grey) remote teach



option-02:
 M8, 4pole

- 1 (brown) + VDC
- 2 (white) analog GND
- 3 (blue) - GND
- 4 (black) analog out



option-03:
 M8, 4pole

- 1 (brown) + VDC
- 2 (white) remote teach
- 3 (blue) - GND
- 4 (black) analog out



Attention!

Connect amplifier to 15-30 VDC only!

Do not mount amplifier cable parallel to a power line!

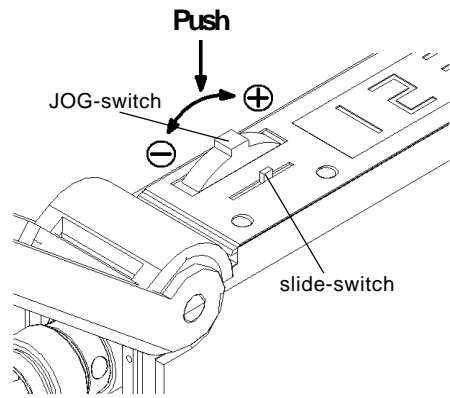
Caution!

Sensor and amplifier are only intended for object detection. Do not use amplifier and sensor for personnel safety applications!

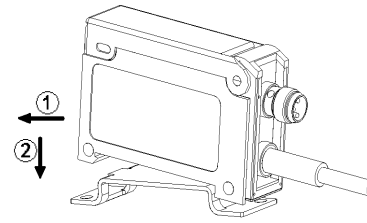
Operation

The different operation modes and parameters are set by a 4-position slide-switch and a JOG-switch with push-button functionality.

	inscription	function
JOG-switch	+	increment
	•	push-button (confirmation of selection)
	-	decrement
slide-switch	OUT	inoperable
	OPT	- operation modes
	TEA	- teach-modes
	RUN	- signal strength display; - selected parameters: ⊕ = increase amplification ⊖ = decrease amplification - external TEACH

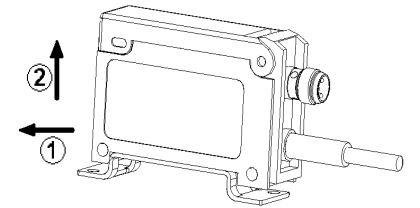


Mount



Put device onto DIN rail clip as shown. Then, connect sensor cable.

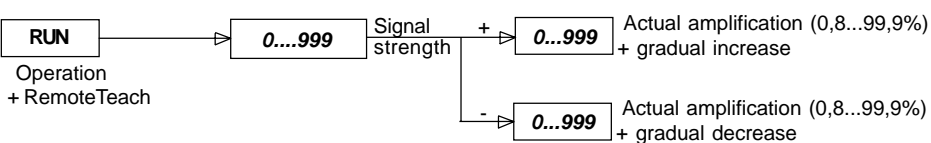
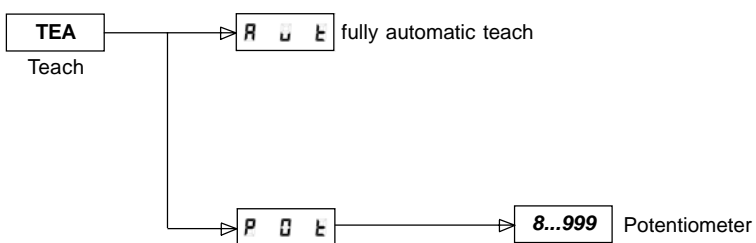
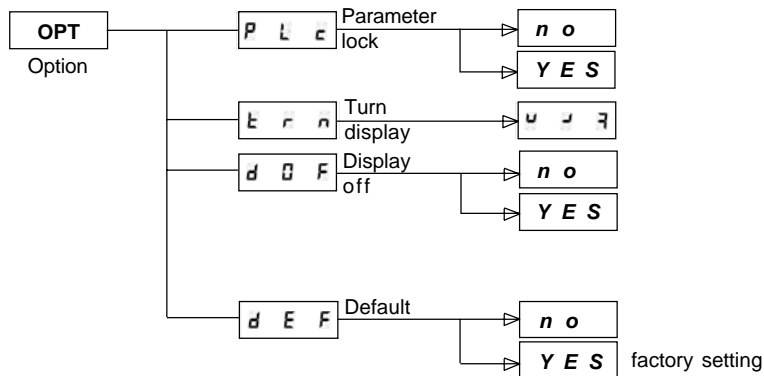
Dismount



First unplug sensor cable connector. Then take amplifier off the DIN rail clip as shown.

V10 menu navigation

slide-switch selection of main menu	JOG-Switch selection with +/- confirm with •	JOG-Switch selection with +/- confirm with •
level 0	level 1	level 2



The actual setting is permanently lit up. Flashing display means: indicated value can be selected. Confirm by pushing JOG-switch.

Teach instruction

	Manipulation	Action	Notice
R u t	• Push JOG-switch to start teach procedure.	Teach procedure determines max. possible amplification to use the full range upto saturation level.	Teach procedure terminates automatically.
P o t	Push JOG-switch in ⊕ or ⊖ direction	Manual adaptation of amplification (0,8%...99,9%) from minimum to saturation	

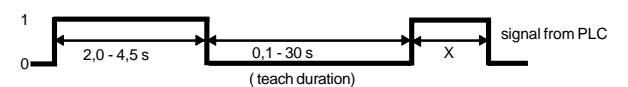
Remote-Teach

The amplification level of the amplifier can be adjusted remotely through the PLC via the teach-input (pink/grey).

(N.B.: only in RUN mode!).

Required voltages	PNP	NPN
Input voltage	Signal „1“: >9V	<3V
Input voltage	Signal „0“: <5V	>6V
Input current:	<3mA	<3mA

The remote teach procedure is actuated by two pulses from the PLC to the amplifier. The duration of the second pulse defines the storage of the determined amplification level.



- 1.) X = 2,0 - 4,5s: Permanent storage (100.000 times max.)
- 2.) X = 0,1 - 1,5s: Non permanent storage (until next power cutoff)