

V91

SWITCHING AMPLIFIER with Potentiometer

- ◉ fully compatible with all STM-sensors to be operated with a separate amplifier
- ◉ standard or high resolution, selectable
- ◉ 3turn potentiometer, no stop
- ◉ 50ms pulse stretching, selectable
- ◉ Light On / Dark On, selectable
- ◉ PNP and NPN coexistent



GENERAL TECHNICAL DATA

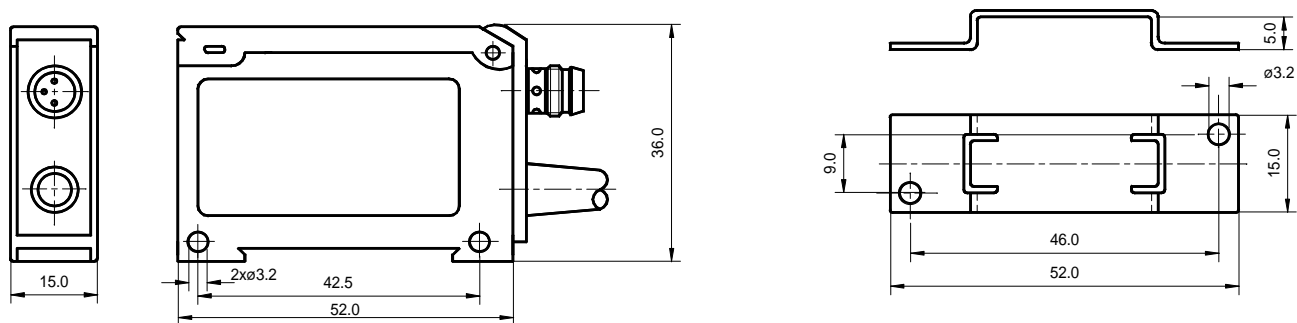
	V91-AP/N	V91-BP/N	V91-FP/N
switching logic	PNP and NPN		
functional principle	non pulsed*	pulsed	
frequency response	10kHz	500Hz	3kHz
max. response time	70µs	1,1ms	200µs
current consumption (average / peak)	45mA / 45mA	45mA / 200mA	45mA / 120mA
max. sensing distance / range**	50%	100%	50%
power supply indicator / signal stability	LED green		
output status indicator	LED yellow		
pulse stretching	0 / 50 ms (selectable)		
operating voltage	10 to 30 VDC (max.), reverse polarity protected		
output current	100mA, short-circuit proof, reverse polarity prot.		
weight	55g		
housing material	ABS		
operating temperature	-10°C to +55°C		
protection class	IP65		
power supply cable (standard)	2m PVC-cable 4 x 0,14mm ²		
optional with plug in supply***	M8, 4pins, male		

*may be influenced by ambient light

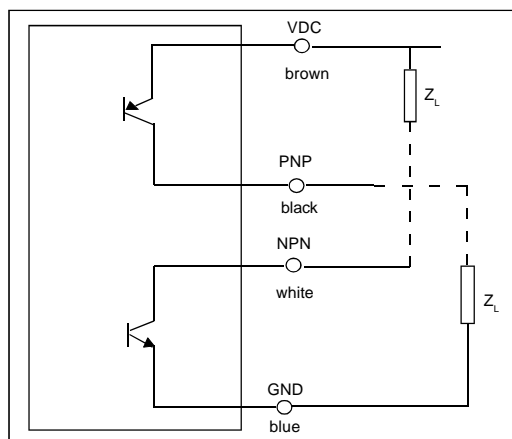
**percentage of nominal sensor rating (see individual sensor datasheet)

***cable to be ordered separately

DIMENSIONS



CONNECTION-DIAGRAM

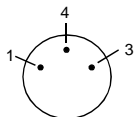


SUPPLY AND OUTPUT

Sensor

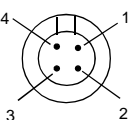
Option -00 (Standard): connector M8, 3 pin

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



Options -10/-11/-19: socket, 4 pin

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



In-/Output

Option -00 (Standard)
Option -10:

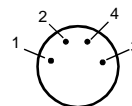
PVC-cable, 4 wires, 2m

- white NPN output
- brown + VDC
- blue - GND
- black PNP output

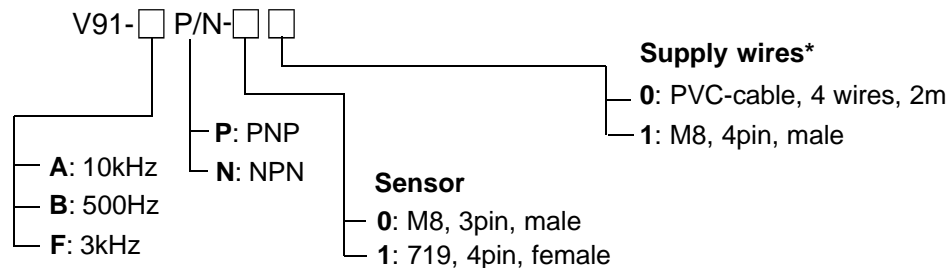
Option -01/-11:

connector M8, 4pins, male

- 1 (brown) + VDC
- 2 (white) NPN output
- 3 (blue) - GND
- 4 (black) PNP output



PART DESIGNATION



*plug-in supply cable to be ordered separately!

ORDER EXAMPLE:

V91-BP/N-01 = 500Hz / PNP+NPN / sensor M8, 3pins / supply M8, 4pins, male