TEACH ELECTRONIC

Content:

VTS-Box Teach Electronic

Key Features:

- Connectable to a potentiometer
- 0...10 V output signal, teachable up to 50 % of the measurement range
- integrated Squeezer for easy operation
- switching output
- high stability
- low ripple

INTRODUCTION

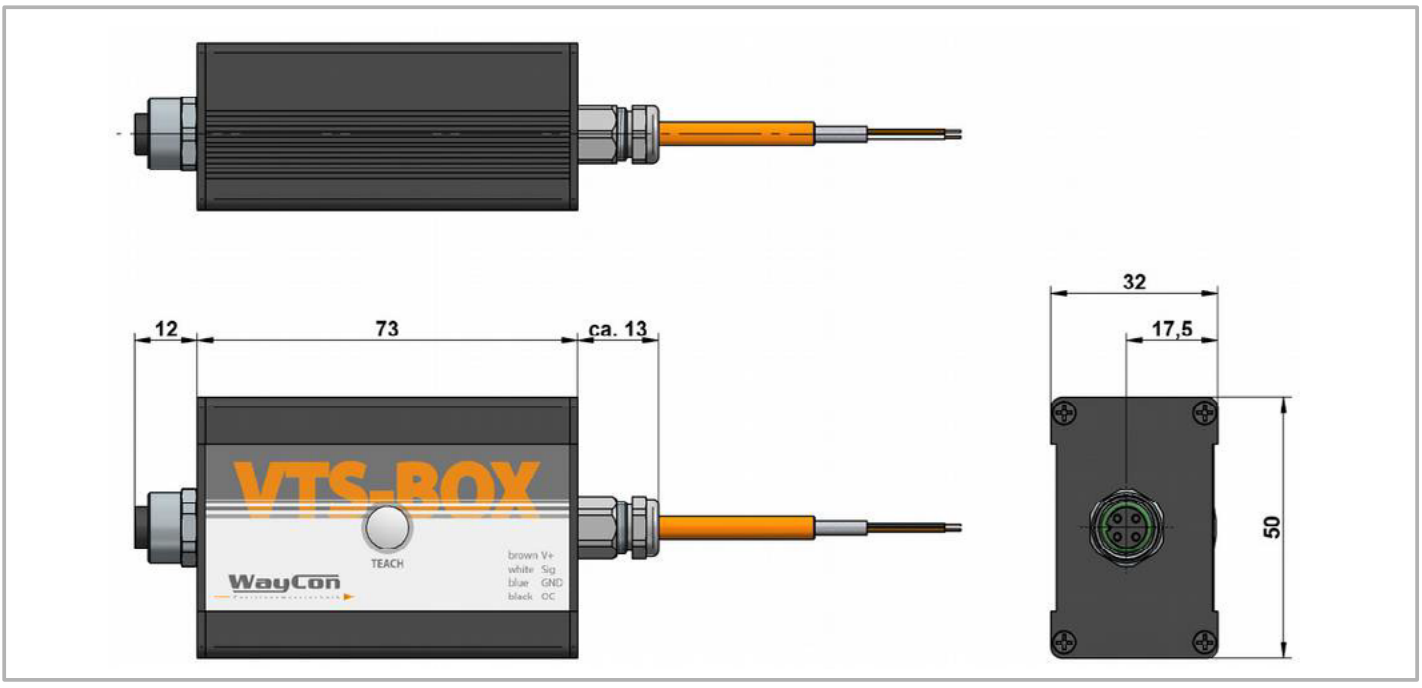
The VTS-Box is a signal converter, which converts potentiometer signals into a proportional voltage output or a switching output. The device is suitable for all sensors with a potentiometer as sensor element. The VTS-Box electronic digitises the cursor voltage of the potentiometer. This digitised information is processed, converted back as an analogue output signal, e.g. 0 to 10 V.
The digitalisation allows two possible settings for individual configuration of the sensor.

1) Teaching of the measurement range
2) Setting of the switching output

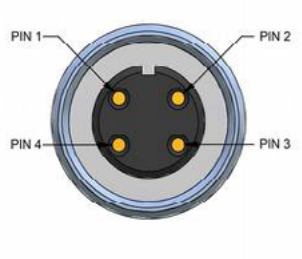
TECHNICAL DATA

VTS-Box	
output	0...10 V (teachable) teachable up to approx. 50% of measurement range, not galvanically separated, 3-wire NPN-switching output (max. 100 mA / max. 35 V)
input	potentiometer
Supply	8...35 VDC
max. current consumption	40 mA
output current	max. 10 mA; min. load 1 kOhm
dynamic	1 ms
resolution	1 mV
inverse-polarity protection	yes
short circuit protected	yes
working temperature	-40...85 °C
temperature coefficient	0,0016 %/K
connection technology	3-wire technology
EMV	EN 61326-1:2006
protection class	IP40

TECHNICAL DRAWING



ELECTRICAL CONNECTION



	Pin	Cable colour	Wire
Pin 1	V+	brown	V+
Pin 2	Cursor	white	Signal
Pin 3	GND	blue	GND
Pin 4	n.c.	black	OC*

* Open Collector

The Open Collector is a NPN switching output. On delivery, the switching output is set to the upper teach point.

ACCESSORIES

Cable with mating connector M12, 4 poles, shielded	
K4P1,5M-SB-M12	1.5 m, straight connector

Mating Connector M12, 4 poles, shielded	
D4-G-M12-S	straight, M12 for self assembly
D4-W-M12-S	angular, M12 for self assembly