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Member of GHM GROUP

Isolating Converters

Product Information

**Isolating Signal Converter
TV500Ex / ST500Ex**

With integr. transmitter supply



Characteristics

TV500 isolating signal converter can be used to isolate and convert field signals 0/4..20 mA or 0/2..10 V DC out of the intrinsically area. The ST500 provides a fully floating isolated transmitter supply.

Technical data

Power supply

Supply voltage : 85..253 V AC/110..125 V DC or 10..30 V AC/DC

Frequency : 40..400 Hz
Power consumption : < 3.5 VA

Operating temperature : -10..+55 °C
CE-conformity Standards : ATEX-directive 2014/34/EU
EN 60079-0:2006, EN 60079-11:2007
EN 61241-0:2006, EN 61241-11:2006

EMC-directive Standards : 2014/30/EU
EN 61326-1:2013

Explosion protection

Certification : TÜV 97 ATEX 1150, 2. annex
Approval : II (1) G [Ex ia Ga] IIC,
II (1) D [Ex ia Da] IIIC

Inputs

Current : 0/4..20 mA selectable, Ri 25 kΩ
overload max. 100 mA
Voltage : 0/2..10 V DC selectable,
Ri 40 kΩ, overload max. 100 V

Span and start value

4 mA/2 V : adjustable approx. ± 20 %
Transmitter supply : approx. 20 V DC, Ri approx. 300 Ω,
(only ST500Ex) short-circuit current < 27 mA

Outputs

Current : 0/4..20 mA selectable,
burden max. 1 kΩ
Voltage : 0/2..10 V selectable,
load max. 15 mA, short-circuit-proof
(parallel with current output max. 5 mA)

Rise time (t₉₀) : < 100 ms
Accuracy : 0.25 %

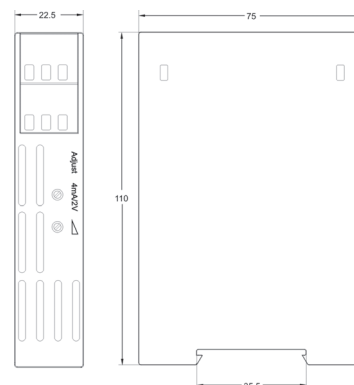
Case : standard case polycarbonate 8020 UL94V-1
acc. to DIN EN 60715:2001-09, TS35

Weight : approx. 200 g
Connection : screw terminals, max. 2.5 mm²
Protection class : case IP30,
terminals IP20 acc. to BGV A3

Mounting area

Mounting in dry, clean and well monitored areas
For more details see user manual.

Dimensions

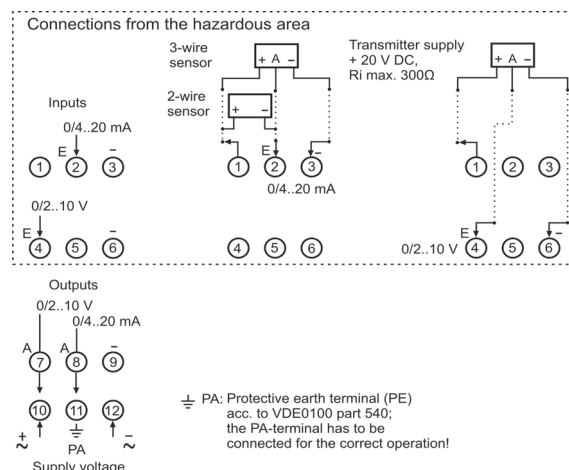


DIN rail mounting TS35

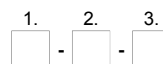
Connection diagram

**Signal converter
TV500Ex**

**Power feed signal converter
ST500Ex**



Ordering code



1. Model	TV500Ex	signal converter
	ST500Ex	power feed signal converter
2. Measuring range	10	inputs 0/4..20 mA and 0/2..10V outputs 0/4..20 mA and 0/2..10V
3. Supply voltage	0	85..253 V AC
	5	10..30 V AC/DC