

Over-voltage protectors

Product features

- Transient voltage protection of 4-20 mA current loops
- 3-stage protection
- 10 kA surge (8 / 20 μ s) withstand capability
- 41 V max. output voltage
- IP 65 protected and TS-32, TS-35 rail mounting versions



Type designation

TYPE	GROUNDING	PROTECTION
DT320 F	Floating	IP 20
DT320 G	Grounded	IP 20
DT321 F	Floating	IP 65
DT321 G	Grounded	IP 65

The **DT320 ... / DT321 ... Over-voltage protectors** are designed to protect the 4-20 mA transmitter loop against over-voltage.

The units use 3 stages of protective components: spark gap, varistor and zener supressor. The maximum surge current withstand capability is 10 kA and the maximum output voltage is 41 V.

The types DT320 G and DT321 G have grounded outputs the DT320 F and DT321 F have floating outputs. There are two versions of housing: the types DT320 ... are rail mounting for installation in cabinet, the types DT321 ... are IP 65 protected for field installation.

Input parameters:

Input signal:	DC current
Range:	0-35 VDC
Input current:	120 mADC (max.)
Input-output serial resistor:	30 ohm

Output parameters:

Output signal:	DC current
Range:	23.4 VDC (24 VDC input voltage at 20 mA output current)
Overvoltage protection:	41 V (limiter)

Ambient conditions:

Operating temperature range:	-20 - +60 °C	
Relative humidity:	90% (max., non condensing)	
Place of installation:	DT320 ... : cabinet	DT321 ... : field

General data:

Housing:	DT320 ... : terminal assembly box, rail mounting on TS-35 rail material: polyamide PA6.6	DT321 ... : polycarbonate box
Connection:	screw-fixed type connection	2 Pg 13.5 cable entry screw-fixed type connection
Connection cable:	2.5 mm ² (max.)	3 x 1.5 mm ² (max.)
Dimensions:	DT320 ... : 25 x 80 x 85 mm (width x height x depth)	DT321 ... : 80 x 120 x 55 mm (width x height x depth)
Weight:	cca. 0.1 kg	cca. 0.2 kg
Protection:	IP 20	IP 65

Detailed information see in operating instructions. The Manufacturer maintains the right to change the technical data!