

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
- TS-35 rail mounting, 25 mm width
- IP 65 enclosure 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 kV 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.

Safety data:

The connection terminals of the supply voltages are isolated from each other, the isolation is in compliance with the standard EN 61010-1, taking into consideration the following:

Pollution level: 2
 Measurement category: II

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 × 1.5 mm ² (max.)
Dimensions:	DT320 ... : 25 × 80 × 85 mm (width × height × depth)	DT321 ... : 80 × 120 × 55 mm (width × height × 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!