

Model 6/303

Current Driver for Fire/Gas Detection

Loop Powered



Product features

- I/I output isolator, loop powered
- 2 channels
- Ex ia/ib approved
- EMC to EN 61326 and NE21
- Galvanic isolation between input and field side

Technical data:

Output voltage	$U_{in} < 24\text{ V: } U_{out} = U_{in} - 1\text{ V} - R_{out} \times I_{out}$ $U_{in} < 4\text{ V: } U_{out} = 0\text{ V}$
Current	0 - 38 mA, short circuit protected
Response time	< 30 msec for DI = 0.3 mA
Quiescent current	300 μA (24 V)

Supply:

Loop power supply	5 - 30 V DC
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Transmission:

Linearity loop power (18 - 26 V DC, 20 °C, 500 Ω)	
0 < I < 10 mA	< 1 %
> 10 mA	< 5 %
Temperature drift	< 1 % /10 K
Galvanic isolation	2.5 kV
Ambient temperature	- 20 °C ... + 60 °C
Relative humidity	< 95 %, no condensation
Weight	160 g
Terminals	plug-in screw terminals
Protection	IP 20

Explosion protection:

Category	II (1) GD [Ex ia] IIC
EC-Type Examination	TÜV 98 ATEX 1343
Safety values	$V_{oc} = 27.3\text{ V}$, $I_{sc} = 93\text{ mA}$, $P_o = 635\text{ mW}$ Characteristic: linear

Ordering details

Type	Channels	Ex-protection	Order No.
6/303	2	EEX ia	GHG 126 3321 E 1008

