

Model DN420 SMART Transmitter Power Supply Input isolator



Product features

- Power supply for 2- and 3- wire 4 - 20 mA transmitter
- HART-communication for all major brands
- DIN rail mounted
- HART also for powered field devices
- 3- e.g. 2- port isolation
- EEx ia/ib approved
- EMC acc. to EN61326 and NE21
- Short circuit protected output

Technical data:

Field device power supply	16 V at 20mA (Voc 27V) 14.5 V at 20mA (Voc 24V)
Load	< 750 Ω, (at HART < 500 Ω)
HART communication	in parallel to load or via front sockets
Linearity	< 0.1 %
Temperature drift	< 0.1 % / 10K
Response time	22 ms (10 - 90%)
Band width (HART)	0 - 7kHz
Power supply	20 - 26,4 V AC 20 - 30 V DC
Power consumption	3.1 VA / 2,2 W
Ambient temperature	-20°C ... +60°C
Relative humidity	< 95%, no condensation

Explosion protection:

Category	II (1,2) GD [EEx ia/ib] IIC
EC-type examination	TUV 04 ATEX 2668
Safety values	Voc < 27V, Isc < 92mA, Po < 620mW Voc < 24V, Isc < 82mA, Po < 490mW Characteristic line: linear Voc < 5V, Isc < 50mA, Po < 62mW (isolator)

Ordering details

Type	Ex-protection	HART	Order No.
DN420	ia/ib Voc 27V	x	GHG124 3111 R 1206
DN420	ia/ib Voc 24V	x	GHG124 3411 R 1206
DN420	-	x	GHG124 3011 R 1206
DN420	ia/ib Voc 27V	-	GHG124 3111 R 1006
DN420	ia/ib Voc 24V	-	GHG124 3411 R 1006
DN420	-	-	GHG124 3011 R 1006

If 3-wire output is required (replacement for 8/420) connect terminal 10 to terminal 15!

