

Features

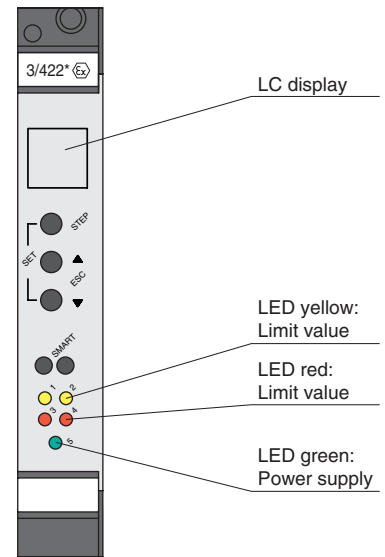
- 1-channel isolated barrier
- 2 trip relays
- 2-wire SMART transmitters or current sources
- Output 0/4 mA ... 20 mA and 2 trip amplifiers
- Short-circuit proof outputs
- LCD display
- Galvanic isolation between input, output, power supply and contact output

Function

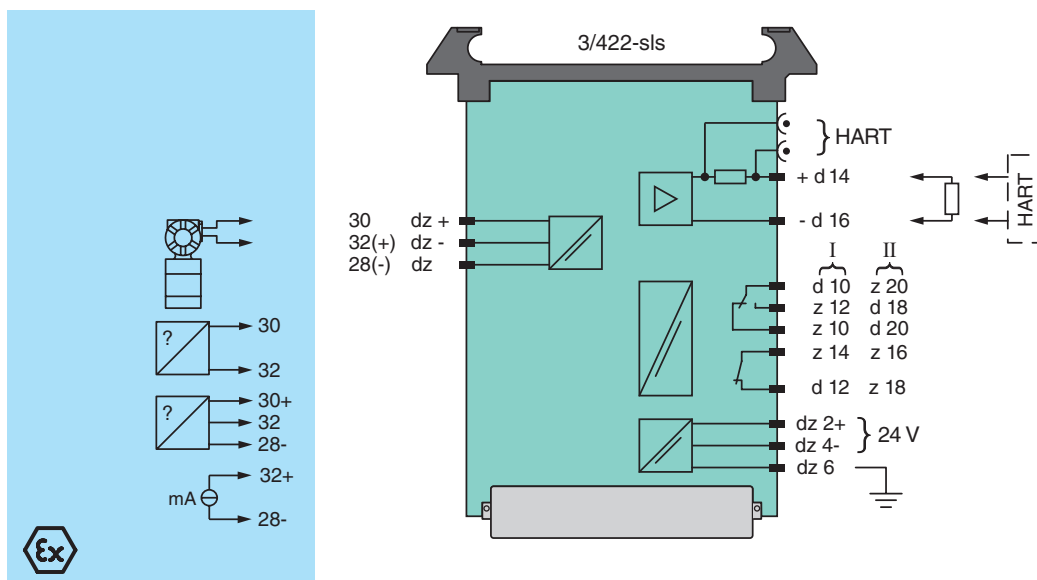
The device provides fully floating DC supply for energizing 2 wire 4 mA ... 20 mA transmitters or separately powered 3, 4 wire 4 mA ... 20 mA transmitters located in hazardous area and repeats the current in a floating circuit to drive a safe area load. The circuit contains 2 channel trip amplifiers providing 2 relay SPST contacts. It also allows bidirectional communication signal for HART transmitters either via front sockets or in parallel to the output terminals. A green 'Power On' LED lights when input power is present. LFD and trip points will be displayed by red and yellow LED's. The control elements on the front plate as well as DIP and code switch on the pcb allow presetting of output state and input monitoring (LFD and short circuit).

Assembly

Front view




Connection



Release date 2017-08-24 14:49 Date of issue 2017-08-24 t43486_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

General specifications	
Signal type	Analog input
Supply	
Connection	dz2+, dz4-, dz6 (PE)
Rated voltage	U_r 15.5 V at 20 mA (U_o 28 V) 14.5 V at 20 mA (U_o 24 V)
Input	
Connection	Input I: dz30+, dz32- (+), dz28(-)
Input resistance	dynamic 250 Ω , static 150 Ω
Output	
Connection	Output I: d10, z12, z10; z14, d12 Output II: z20, d18, d20; z16, z18 Output Analog: d14+, d16-
Load	750 Ω
Relay	
Switching voltage	50 V
Switching current	1.2 A AC/DC
Switching power	60 VA / 30 W
Mechanical life	10 Mio. cycles
Electrical life	0.5 Mio. cycles
Response time	20 ms
Current output	4 ... 20 mA
Response time	22 ms (10 ... 90%)
Transfer characteristics	
Influence of temperature	< 0.2 %/10 K
Linearity	< 0.2 %
Galvanic isolation	
Input/Output	2.5 kV (test voltage)
Input/power supply	2.5 kV (test voltage)
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	The device has been used for the same applications for several years. It therefore features an appropriate electromagnetic field immunity. The device must not be used in new plants.
Ambient conditions	
Ambient temperature	-10 ... 60 °C (14 ... 140 °F)
Storage temperature	-25 ... 80 °C (-13 ... 176 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Mechanical specifications	
Degree of protection	IP20 (installed in 19" rack)
Connection	plug connector acc. to DIN 41612, 32-pin, type F, rows d and z provided
Mass	approx. 250 g
Dimensions	22 x 143 x 193 mm (0.9 x 5.6 x 7.6 inch)
Construction type	Eurocard 100 x 160 mm (3.9 x 6.3 inch) acc. to DIN 41494, front panel 4TE, mountable in 19 inch rack
Coding	02/03/11
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	TÜV 98 ATEX 1373 X
Marking	 II (1)GD [Ex ia] IIC
Voltage	U_o 27.1 V 5 V
Current	I_o 93 mA 50 mA
Power	P_o 630 mW 62 mW
Supply	
Maximum safe voltage	U_m 250 V _{eff}
Output	
Contact loading	250 V AC/1.25 A/60 VA oder 150 V AC/1.25 A/30 W resistive load
Directive conformity	
Directive 94/9/EC	EN 50014:1997+A1 +A2, EN 50020:2002
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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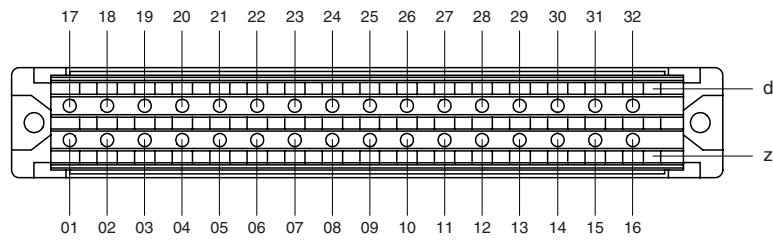
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Ordering Information

Type	Input	Output	Trip Value	Ex protection	Model number
3/422(sls/422)	0/4 ... 20 mA	0/4 ... 20 mA	2 relays	Ex ia/ib U _o < 27,1 V I _o < 93 mA	GHG 124 2121 G1216

Default settings 1 min, 1 max, lead breakage detection influences all relays, sls compatible.

Notes



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