

Features

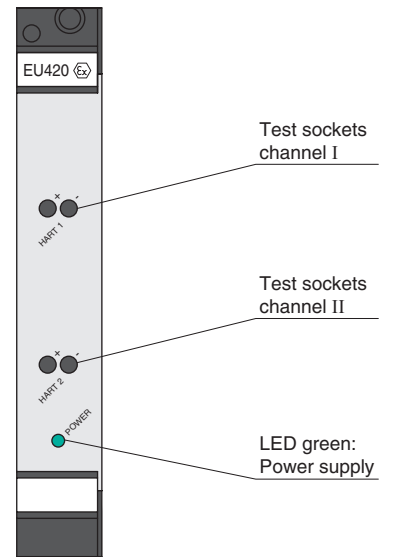
- HART communication for field devices of well-known manufacturers
- Test sockets/HART communication
- 2-wire SMART transmitters or current sources

Function

The device supplies 2-wire-transmitter in the hazardous area.

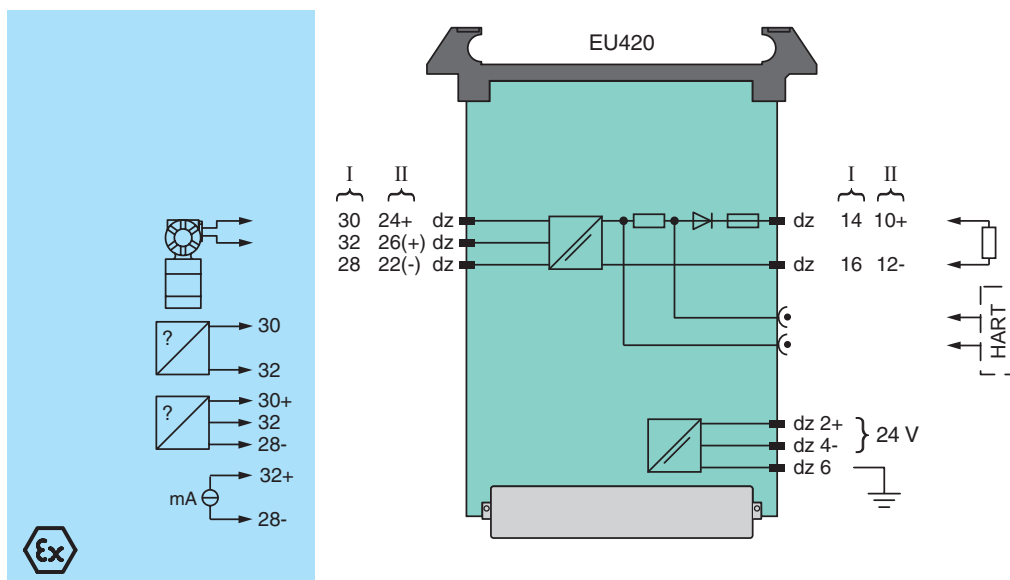
Assembly

Front view



SIL2

Connection



Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42553_eng.xml


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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

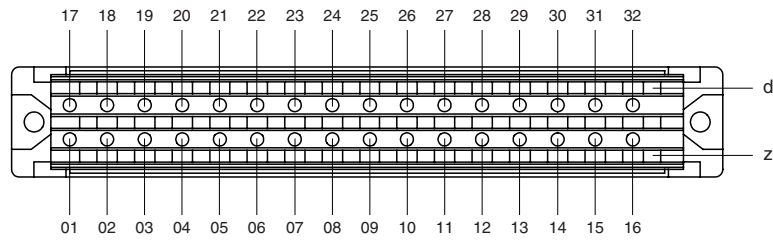
General specifications		
Signal type		Analog input
Supply		
Connection		dz2+, dz4-, dz6 (PE)
Rated voltage	U_r	20 ... 30 V DC (<4,5 W / 2 channels) 20 ... 26.4 V AC (< 3 VA/channel)
supply voltage for field devices		15.5 V at 20 mA (U_0 27 V) 14.5 V at 20 mA (U_0 24 V)
Input		
Connection		Input I: dz30+, dz32- (+), dz28(-) Input II: dz24+, dz26- (+), dz22 (-)
Input resistance		150 Ω , dynamic 250 Ω (HART)
Output		
Connection		Output I: dz14+, dz16- Output II: dz10+, dz12-
Load		\leq 750 Ω , for HART/FSK < 500 Ω
Current output		4 ... 20 mA , non-intrinsically safe
Response time		< 22 ms (10 ... 90%)
Communication		HART communication parallel to load or via front socket
Transfer characteristics		
Influence of temperature		< 0.2 %/10 K
Linearity		< 0.2 %
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.
Conformity		
Galvanic isolation		EN 50178
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 ... 60 $^{\circ}$ C (-4 ... 140 $^{\circ}$ F)
Storage temperature		-40 ... 80 $^{\circ}$ C (-40 ... 176 $^{\circ}$ 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, d and z internal connected
Mass		approx. 300 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		(U_0 < 24 V) 02/04/15 (see "Notes") (U_0 < 27 V) 02/03/15 (see "Notes")
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		TÜV 02 ATEX 1937 X
Marking		 II (1/2) GD [EEx ia/ib] IIC/IIB
Voltage	U_o	Power supply: <27 V (24 V) Input isolator: < 5 V
Current	I_o	Power supply: < 92 mA (82 mA) Input isolator: <50 mA
Power	P_o	Power supply: < 620 mA (490 mW) (linear characteristic) Input isolator: < 62 mW (linear characteristic)
Internal capacitance	C_i	5 nF
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 .

Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42553_eng.xml

Ordering information

Type	Ex protection	Channels	HART	Model number
EU420	ia/ib $U_0 < 27\text{ V}$, $I_0 < 92\text{ mA}$	1	X	GHG 124 2111 H 3206
EU420	ia/ib $U_0 < 24\text{ V}$, $I_0 < 82\text{ mA}$	1	X	GHG 124 2411 H 3206
EU420	ia/ib $U_0 < 27\text{ V}$, $I_0 < 92\text{ mA}$	2	X	GHG 124 2121 H 3206
EU420	ia/ib $U_0 < 24\text{ V}$, $I_0 < 82\text{ mA}$	2	X	GHG 124 2421 H 3206

Notes



Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42553_eng.xml

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com