

Solenoid Driver

EGA-135

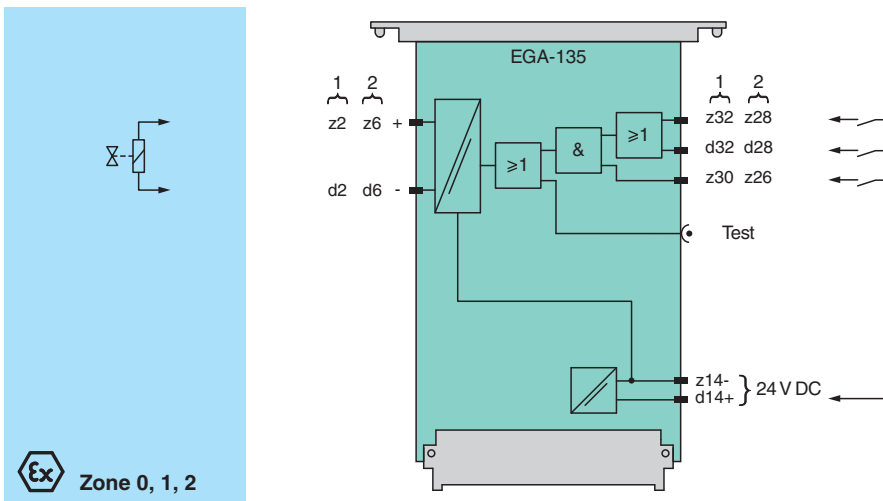
- 2-channel isolated barrier
- 24 V DC supply
- Output 13 mA at 18.8 V DC
- Logic input
- Test sockets for output override



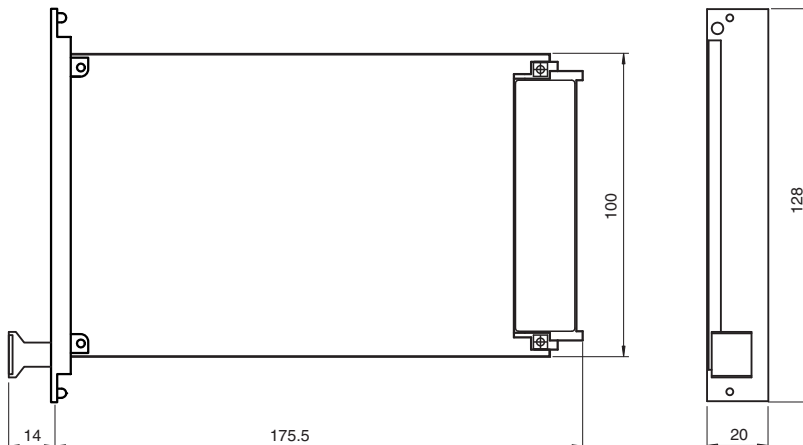
Function

This isolated barrier is used for intrinsic safety applications. The device supplies power to solenoids, LEDs, and audible alarms, located in a hazardous area. The device is controlled via a logic signal. At full load, 18.8 V at 13 mA is available for the hazardous area application. Test sockets for output override are integrated in the device. The test status is signaled by red LEDs.

Connection



Dimensions



Release date: 2020-08-04 Date of issue: 2020-08-04 Filename: 049145_eng.pdf

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

PF PEPPERL+FUCHS

Technical Data

General specifications		
Signal type		Digital Output
Supply		
Connection		d14+, z14-
Rated voltage	U_r	20 ... 30 V DC
Ripple		≤ 10 %
Rated current	I_r	approx. 80 mA
Power consumption		max. 2.2 W
Input		
Connection		channel 1: d32, z32, z30 channel 2: d28, z28, z26
Input current		5 mA
Signal level		1-signal: 15...30 V DC or contact close 0-signal: 0...5 V DC or contact open
Response delay		5 ... 30 ms (typical 10 ms)
Output		
Connection		channel 1: d2-, z2+ channel 2: d6-, z6+
Internal resistor	R_i	400 Ω
Current	I_e	13 mA
Voltage	U_e	18.8 V
Open loop voltage	U_s	24 V
Transfer characteristics		
Switching frequency		15 Hz
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		
Insulation coordination		EN 50178
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		32-pin plug connector acc. to DIN 41612 , series 2 , type F ; z and d provided
Mass		approx. 220 g
Dimensions		20 x 128 x 193 mm (0.8 x 5 x 7.5 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		a23/c13
Data for application in connection with hazardous areas		
EC-Type Examination Certificate		PTB 00 ATEX 2099 X , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		⊕ II (1)GD [EEx ia] IIC
Output		EEx ia IIC
Voltage	U_o	25.2 V
Current	I_o	67.18 mA
Power	P_o	423.46 mW (linear characteristic)
Supply		
Maximum safe voltage	U_m	40 V (Attention! The rated voltage can be lower.)
Input		
Maximum safe voltage	U_m	60 V (Attention! The rated voltage can be lower.)
Galvanic isolation		
Input/Output		safe galvanic isolation acc. to EN 50020, voltage peak value 375 V

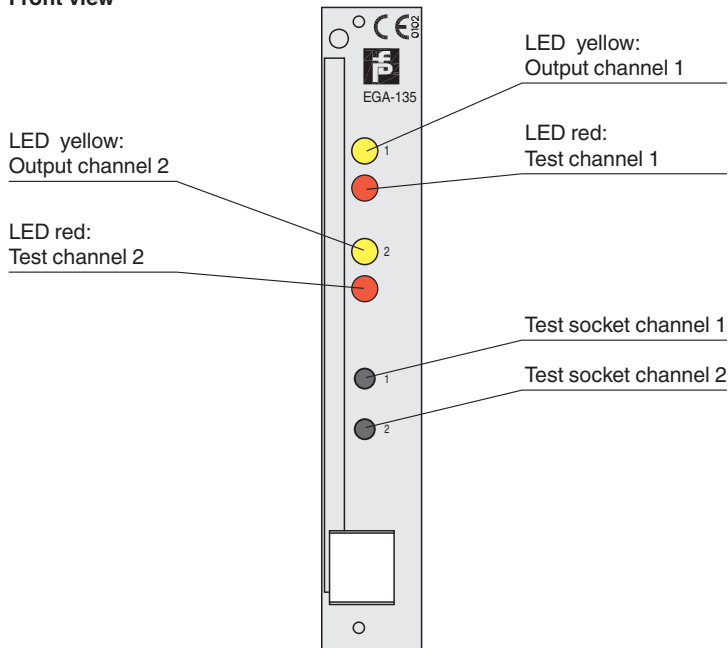
Release date: 2020-08-04 Date of issue: 2020-08-04 Filename: 049145_eng.pdf

Technical Data

Output/power supply	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Directive conformity	
Directive 94/9/EC	EN 50014:1997, EN 50020:1994
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 .

Assembly

Front view



Release date: 2020-08-04 Date of issue: 2020-08-04 Filename: 049145_eng.pdf

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

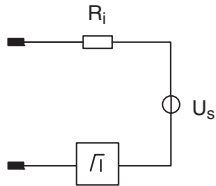
Application

Especially suited for the control of magnetic valves from the SAMSON/SAMSOMATIC company.

Characteristic Curve

Output characteristics

Output circuit diagram



Output characteristic

