

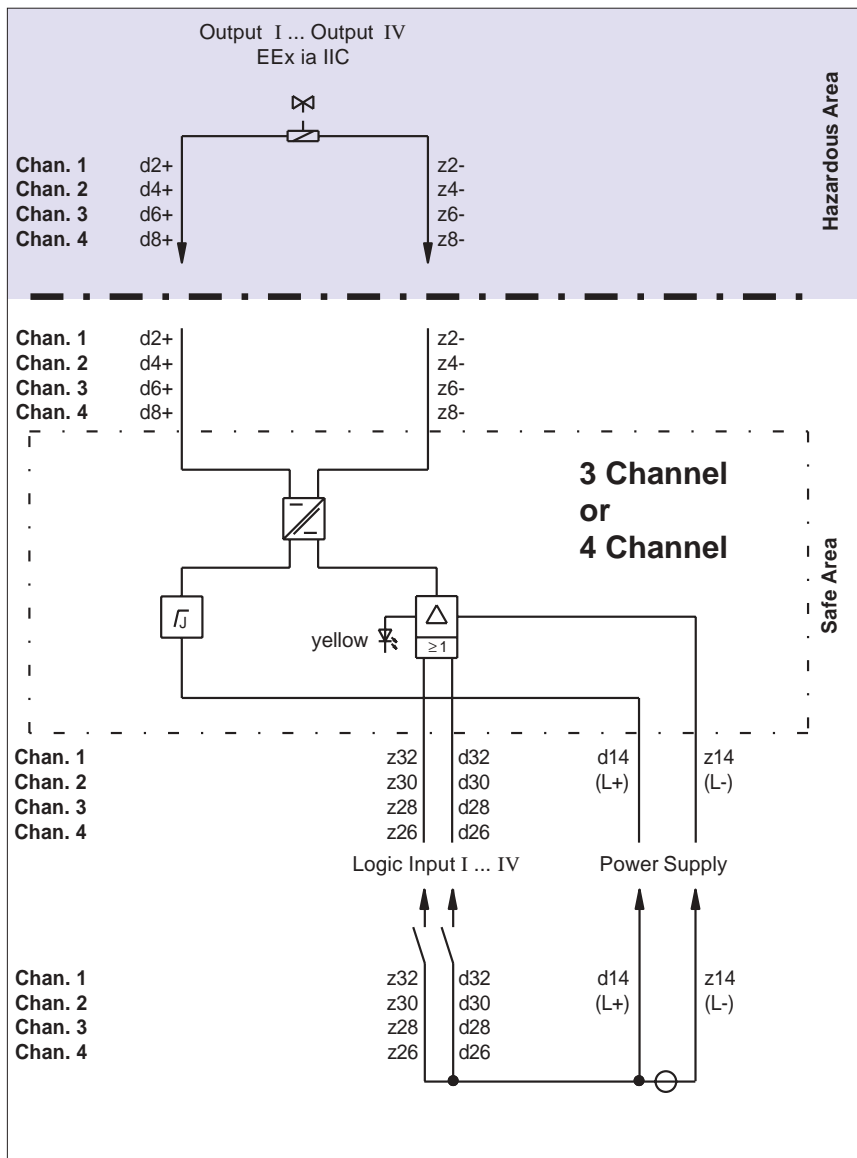
EGA-041-3
EGA-041

- 3-Channel, Model: EGA-041-3
- 4-Channel, Model: EGA-041
- Outputs EEx ia IIC
- DC 24 V supply voltage
- Switch status signal: LED yellow
- The outputs are galvanically isolated from the logic inputs and the power supply
- 2 logic inputs per channel for On / Off switching
- EMC per NAMUR NE 21

The EGA-041 has a logic input with which the field device is controllable. Voltage signals in the range of DC 15 V ... 30 V are accepted as logic-1. Logic-0 must lie in the DC 0 V ... 5 V range. The current consumption of the logic input is about 5 mA. When the supply voltage is in the range of DC 20 V ... 30 V, internal regulators ensure that the open circuit voltage of about DC 24 V is across the output. The internal resistance is about 320 Ohm and the output current is limited to 27 mA. The output current is limited to 38 mA with the EGA-041-3 unit.

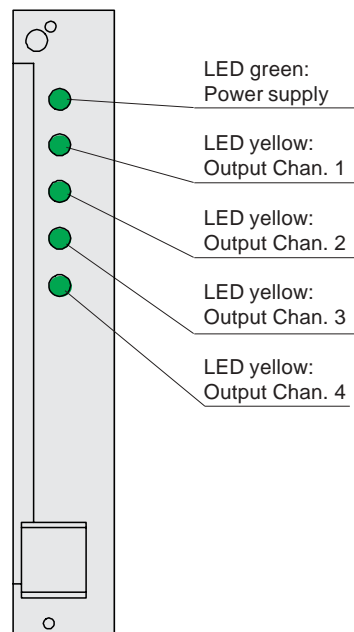
Application

Especially suited for the control of solenoid valves.
See the solenoid driver table on pages 108 to 110.



Front View

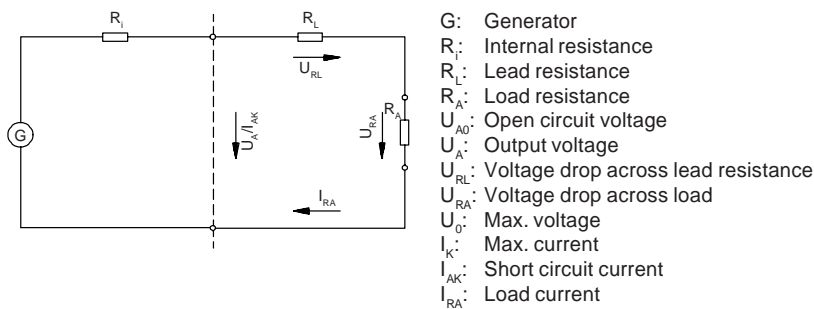
Type A
(dimensions see page 16)



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Technical data Power supply Nominal voltage Ripple Nominal current Power consumption	EGA 041 DC 20 V ... 30 V within the supply tolerance about 150 mA about 4 W	EGA 041-3 Connections d14 (L+), z14 (L-) - about 3 W
	Input (not intrinsically safe) Input I : Input II : Input III : Input IV : only with EGA-041 Signal level Logic-1 Signal level Logic-0 Input current Input delay	Logic input Logic input Logic input Logic input DC 15 V ... 30 V DC 0 V ... 5 V about 5 mA 5 ... 30 ms (typically 10 ms)
Output (intrinsically safe) Output I : Output II : Output III : Output IV : only with EGA-041 Open circuit voltage Output current (short circuit) Internal resistance Curve angle point E	about 24 V 27 mA ± 7% about 320 Ohm 16 V ± 0.4 V at 25 mA	Connections d2+, z2- Connections d4+, z4- Connections d6+, z6- Connections d8+, z8- about 24 V 38 mA ± 5% about 320 Ohm 13.4 V ± 0.3 V at 35 mA
Certificate of Conformity Peak Values Max. voltage U_0 Max. current I_0 Max. power P_0 Allowable circuit values Ignition protection method, category Explosion group Max. external capacitance Max. external inductance	PTB Nr. Ex-96.D.2518X other certifications see www.pepperl-fuchs.com 27.3 V 91 mA 620 mW [EEx ia] IIA / IIB / IIC 2.28 µF / 0.683 µF / 0.088 µF 34.5 mH / 17.5 mH / 4.3 mH	
Transfer characteristics Switch frequency	15 Hz	
Galvanic isolation Input / Output Input / Power supply Output / Power supply	available available available	
Conformity to standards Climatic conditions EMC / Electromagnetic compatibility	per DIN IEC 721 per EN 50081-2 / EN 50082-2, NAMUR NE 21	
Ambient temperature Connection method Coding Weight	-20 °C ... +60 °C (253 K ... 333 K) 32-pin plug connector per DIN 41 612, Series 2, Type F; z and d provided a23 / c15 about 220 g	

Principal circuit diagram



Output characteristics

