ES-2.. ELECTRONIC SAFETY SWITCHING DEVICE FOR PRESSURE MONITORING

ES-21

Pressure limiter or pressure switch Type-tested according to 2014/68/EU

- Simple and precise setting of switching thresholds, reset values and delay times
- Robust, industrial-suited and fail-safe design
- Integrated self-test functions
- Measured value and alarm indication on the display
- Comprehensive service functions, as well as data logging
- On-site operation on the unit and via smartphone



Technical data

Characteristics

characteristics		
Operating voltage	1632 V DC (max. 3,1 W)	
Dimensions	150 x 60 x 42 mm (L x W x H)	
Housing	Anodised aluminium	
Parts in contact with the medium	Stainless steel (relative pressure version)	
Protection class	IP65	
Operating conditions		
Pressure type	Relative pressure Differential pressure	
Media temperature	-40+125 °C	
Ambient temperature	-20+65 °C	
Process connection		
Relative pressure version	G ¼" internal thread	
Differential pressure version	G 1/8" internal thread	
Adapter available upon request		
Electrical connections		
Analogue current output	1 x 420 mA	
Digital inputs/outputs	Configurable as 2 x alarm or 1 x alarm and 1 x remote unlocking	

Load capacity of the switching contacts

DC1/DC13:	16 A (24 V)	AC1:	16 A
	2 A (40 V)	AC3:	10 A
	0.3 A (200 V)	AC16:	8 A

	Relative pressure	Differential pressure	
Measuring range nominal pressure	-1500 bar freely selectable	01 mbar 010 mbar 050 mbar 0100 mbar 0250 mbar 01,000 mbar	
Overload pressure	2 x nominal pressure	10 x nominal pressure	
Bursting pressure	4 x nominal pressure	15 x nominal pressure	
Setting accuracy	0.1 % of nominal pressure		

Other measuring ranges available upon request

Possible applications

- Refrigeration systems and heat pumps
- Ventilation, heating and climate technology
- Filter and pump monitoring
- Hot water and steam boiler monitoring
- Process measurement technology
- Mechanical and plant engineering

Technical modifications reserved.

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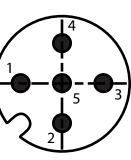


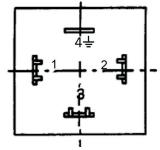
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Wiring diagram of the cable sockets and connectors

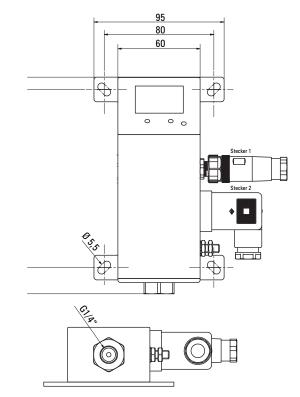
Connector 1: 5-pin M12 A-coded Pin assignment (male): 1: GND 2: 16...32 V DC (max. 3.2 W) **3:** Digital I/O 1 (configurable) 4: Current output(4...20 mA) 5: Digital I/O 2 (configurable)

Connector 2: Rectangular connector, according to EN 175301 form A Pin assignment: 1 and 2: Switching channel 3 and 4: d.n.c. / do not connect



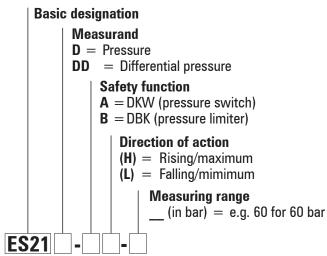


Attention Do not connect contact $4 \neq$ to earth



Device design and dimensions

Model number



Pressure monitoring

Datenblatt_ES-21_6.09.2022_ANHU

Smartphone App

- Retrieval of setting and test protocols
 - Comfortable setting of limit values & delay times

Configuration of the device

Management of multiple devices

More information: www.zila.de/es20

Test the app now!

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