Features

- · 2-channel signal conditioner
- 230 V AC supply
- · Level sensing input
- Adjustable range 1 kΩ ... 150 kΩ
- · Relay contact output
- · Adjustable time delay up to 10 s
- Minimum/maximum control
- Line fault detection (LFD)

Function

This signal conditioner provides the AC measuring voltage for the level sensing electrodes.

Once the measured medium reaches the electrodes, the unit reacts by energizing a form C changeover relay contact.

The module is voltage and temperature stabilized and guarantees a defined switching characteristic.

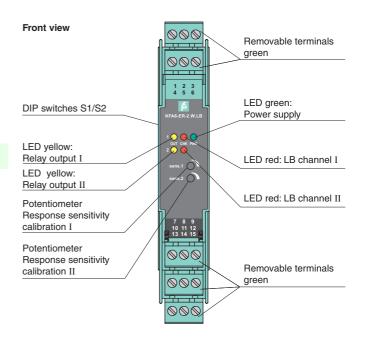
It can be used for on/off control or minimum/maximum control. A signal delay feature is available and is adjustable between 0.5 s and 10 s.

This module can also monitor the field circuit for lead breakage (LB). LB is indicated by a red LED. This function can be deactivated with DIP switches.

Application

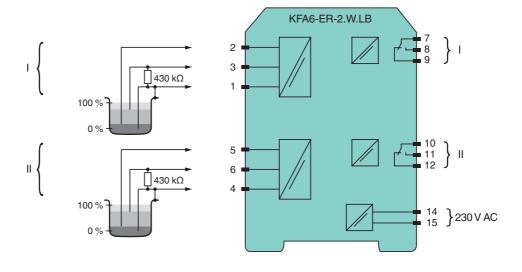
The device is equipped with lead breakage detection (current free relay in event of failure). For this purpose, the enclosed 430 k Ω resistance must be switched between the maximum and reference electrode. This function can be deactivated by DIP switches.

Assembly



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Connection



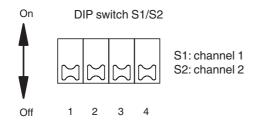
General specifications				
Signal type		Digital Input		
Supply				
Connection		terminals 14, 15		
Rated voltage	U _r	207 253 V AC, 45 65 Hz		
Rated current	I _r	≤7 mA		
Power consumption		<1.2 W		
Input				
Connection side		field side		
Connection		terminals 1, 4 (mass), 2, 5 (min), 3, 6 (max)		
Control input		min./max. control system: terminals 1, 2, 3; 4, 5. 6 on/off control system: terminals 1, 3; 4, 6		
Response sensitivity		1 150 k Ω , adjustable via potentiometer		
Output				
Connection side		control side		
Connection		terminals 7, 8, 9; 10, 11, 12		
Switching power		max. 192 W , 2000 VA		
Output		relay		
Contact loading		253 V AC/2 A/cos ϕ > 0.7; 40 V DC/2 A resistive load		
Time constant for signal damping		0.5 s, 2 s, 5 s, 10 s		
Galvanic isolation		0.0 0, 2 0, 0 0, 10 0		
Input/Output		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Input/power supply		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Output/power supply		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Indicators/settings		Tellinorded indudation addording to IEO/EIV 01010 1, rated indudation voltage 000 vett		
Display elements		LEDs		
Control elements		DIP-switch		
		potentiometer		
Configuration		via DIP switches via potentiometer		
Labeling		space for labeling at the front		
Directive conformity				
Electromagnetic compatibility				
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)		
Low voltage				
Directive 2014/35/EU		EN 61010-1:2010		
Conformity				
Electromagnetic compatibi	ility	NE 21:2006		
Degree of protection		IEC 60529:2001		
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)		
Mechanical specification	าร			
Degree of protection		IP20		
Connection		screw terminals , max. 2.5 mm ²		
Mass		approx. 150 g		
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) , housing type B2		
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001		
General information				
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For		



information see www.pepperl-fuchs.com.

Configuration

DIP switches function on side of device



Switches	Position	Function
4	Off	open circuit current
I	On	closed circuit current
0	Off	LB deactivated
2	On	LB activated

Switch 3	Switch 4	Time constant for signal damping
Off	Off	0.5 s
Off	On	2 s
On	Off	5 s
On	On	10 s

- Open circuit current principle: In open circuit current principle the relay becomes active when the limit is reached.
- Closed circuit current principle: In closed circuit current principle, the relay is activated when power is applied. The relay is deactivated when the limit is reached.