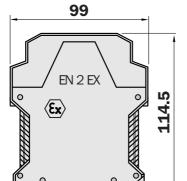
Features

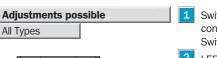
- ⑤ II (1) G/D [EEx ia] IIC according to Directive 94/9/EC (ATEX) with intrinsically safe inputs
- Reliable electrical isolation between input, output and supply voltage to VDE 0100 Part 410
- 2-channel each with one relay output1 x u
- Invertible outputs
- Mounting on 35 mm (1.378 in.) DIN rails according to DIN EN 60715

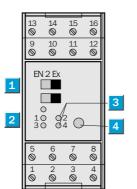


Dimensional drawing





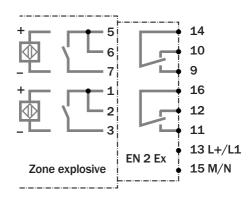




- Switches to reverse action. Switch in position I and contact in the input circuit closed, output active (ON). Switch in position II, output action inverted.
- LED (red), cable monitoring indicator:

 The activation of the cable-break and cable short-circuit monitoring is only functional if a sensor/proximity switch to EN 60947-5-6 (NAMUR) or a mechanical contact with suitable resistance circuit as per the operating instructions is connected. This circuit monitors the input current and deactivates the output with input currents < 0.3 mA cable-break and > 6.5 mA short-circuit irrespective of setting for the direction of action.
- LED (yellow), switch status indication:
 This LED is activated in parallel to the output.
- 4 LED (green), supply voltage indication.

Connection diagram



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Technical data	EN 2 Ex-	1	2	3				
						•		
Supply voltage V _S	120 V AC							
	230 V AC							
	24 V DC							
Power frequency	48 62/s							
Power consumption per channel	Approx. 2.2 VA							
Power consumption, total	Approx. 0.7 W							
Inputs	For 1 or 2 sensors							
No-load voltage	8.5 V DC							
	TÜN OO ATEV OO AO							
EC-type examination certificate	TÜV 03 ATEX 2346							
Output voltage U _o , max.	≤ 10.5 V							
Output current I _o , max.	≤ 26 mA							
Output power P _o , max.	67 mW		_					
External capacity C _a , max.	2.41 μF							
External inductivity L _a , max.	45 mH							
Ambient temperature T _A	Operation: $-20 ^{\circ}\text{C} \le T_a \le +60 ^{\circ}\text{C}$							
Switching points	0 < 1.55 mA							
	1 > 1.75 mA							
Short circuit current	l ≥ 8.5 mA							
Switching outputs 1)	1 relay per input: SPDT							
Switching voltage U _{max.}	250 V AC							
Switching current I _{max.}	5 A							
Switching power P _{max} .	100 VA							
VDE protection class	I							
Enclosure rating	IP 20							
Ambient temperature T _A	Storage: -25 °C +85 °C							
Weight	Approx. 175 g							
Housing material	Plastic							

Provide suitable spark suppression for inductive or capacitive loads.

Transmission characteristics			Order information			
Active direction			Туре	Order no.		
(light-/dark-switching):	Can be changed over (see table)		EN 2 EX-1	6 010 459		
Cable monitoring:	Can be switched off		EN 2EX-2	6 010 460		
Max. switching frequency:	20/s		EN 2EX-3	6 009 944		

Table of switching functions

Input		Active direction light/dark change-over switch on		Cable m	onitoring	Output status		
		I	II		Red LED	Relay	Yellow LED	
No fault in input circuit	Contact open	Normal		as desired	off	dropped off	off	
			Inverted	as desired	off	responded	on	
	Contact closed	Normal		as desired	off	responded	on	
			Inverted	as desired	off	dropped off	off	
With fault in input circuit	Cable break	Normal		on	on	dropped off	off	
			Inverted	on	on	dropped off	off	
	Short-circuit	Normal		on	on	dropped off	off	
	Short-circuit		Inverted	on	on	dropped off	off	
	Cable break	Normal		off off		dropped off off		
	Cable bleak		Inverted	off	off	responded	on	
	Short-circuit	Normal		off	off	responded	on	
	Short-direction		Inverted	off	off	dropped off	off	

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