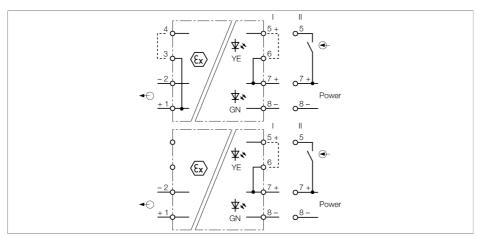


## Valve control module 1-channel MK72-S01-EX/24VDC



MK72-S0.-Ex 24 VDC multi modul



Switching status Power

The solenoid driver MK72-S01-EX/24VDC features an intrinsically safe output with limited current and voltage. Thus making direct connection to loads in the Ex-area possible.

Typical applications are the control of EExi pilot valves as well as the supply of displays and transmitters.

The output voltage of the device can be converted from 12 to 6 VDC by bridging terminals 3 and 4.

The loads can be controlled in two different

- (I) Power supply: Terminal 5 and 6 have to be bridged. In this operating mode the switching frequency is limited to 25 Hz.
- (II) Power supply steady applied at the input: For this purpose a potential-free contact has to be placed between terminals 5 and 6 or input voltage has to be applied to terminal 5. Due to reduced power and the large voltage range the control is still guaranteed, even in cases of low power or high voltage drop at the PCS outputs. This operation mode provides the highest switching frequency (250 Hz).

The switching status of the output is indicated by a yellow LED and operational readiness by a green LED.

- Intrinsically safe input circuits EEx ib
- Application area acc. to ATEX: II (2) G
- Output voltage 6 or 12 VDC
- Output current ≤ 50 mA
- Switching frequency ≤ 250 Hz
- Switching frequency via power supply ≤
- Galvanic separation of input and output circuits



## Valve control module 1-channel MK72-S01-EX/24VDC



Туре	MK72-S01-EX/24VDC	
ldent-No.	7507005	
Nominal voltage	24 VDC	
Operating voltage range	1929 VDC	
Power consumption	≤ 1.7 W	
0-signal	05 VDC	
1-signal	1030 VDC	
Current input	1 mA	
Input delay	≤ 2 ms	
Output circuits	intrinsically safe acc. to EN 60079	
Output current	50 mA	
Output voltage	12 V	
Output curve	U [M]	
	12	
	12	
	50 I [mA]	
Limit frequency	≤ 250 Hz	
Limit nequency	S 200 HZ	
Galvanic separation		
Test voltage	2.5 kV	
Ex approval acc. to conformity certificate	PTB 99 ATEX 2116	
Application area	II (2) G	
Protection type	[EEx ib] IIC	
Max.output voltage U。	≤ 15.8 V	
Max. output current I。	≤ 59.4 mA	
Max. output power P。	≤ 940 mW	
Rated voltage	250 V	
Characteristic	Rectangular	
External inductance/capacitance L <sub>v</sub> /C <sub>o</sub>	EEx ib IIC EEx ib III	В
	Lo [mH] 1,5 5,0	
	0. [.5]	

Co [nF]

green

yellow

IP20 -25...+60 °C

92 g

plates

-40...80°C 89x 18x 70 mm

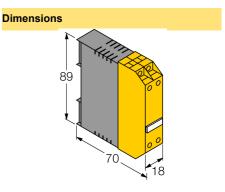
Polycarbonate/ABS

1 x 2.5 mm<sup>2</sup> / 2 x 1.5 mm<sup>2</sup>

110

For mounting on DIN rail or mounting panel

4 x 2-pole flat terminals with self-lifting pressure



Indication

Switching state

Protection class

Dimensions Weight

Ambient temperature Storage temperature

Mounting instruction

Electrical connection

Terminal cross-section

Housing material

Operational readiness

370