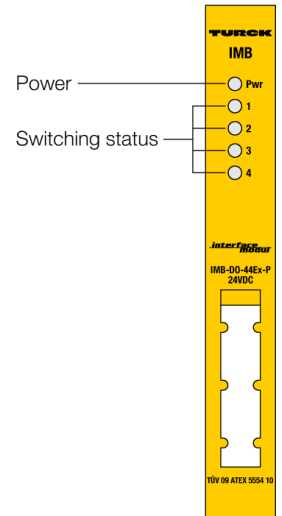
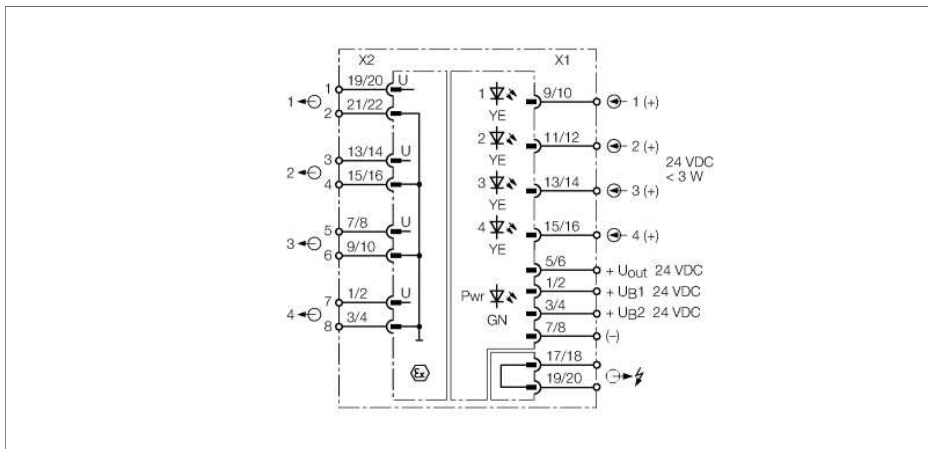


**Valve control module
4-channel
IMB-DO-44Ex-P/24VDC**



The 4-channel valve control module IMB-DO-44Ex-P/24VDC provides current and voltage limited, intrinsically safe output voltage. Loads in the Ex area can thus be triggered directly. The device can be operated with PNP DCS/PLC-DO cards.

Within the area of applicability of the European directive 94/9/EG (ATEX) it is permitted to operate connected loads in potentially explosive atmospheres caused by dust or gas, provided they comply with the applicable regulations.

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

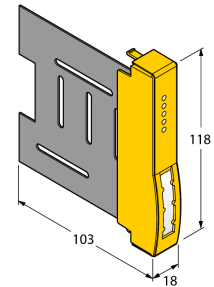
The switching status of the output is indicated by a yellow LED.

The module features a passive alarm. The alarm message is cleared as soon as all slots are assigned. The green LED indicates operational readiness.

- Valve control module for the supply of intrinsically safe, passive two-terminal networks
- For PNP switching DCS/PLC cards
- Intrinsically safe output circuits Ex ia
- Application area acc. to ATEX: II (1) G, II (1) D
- SIL3
- Valve control module, 4-channel
- Switching frequency ≤ 500 Hz
- LED status indication
- Galvanic separation of input and output circuits

**Valve control module
4-channel
IMB-DO-44Ex-P/24VDC**

Dimensions



Type code	IMB-DO-44Ex-P/24VDC						
Ident no.	7570018						
Nominal voltage	24 VDC						
Operating voltage range	20...30 VDC						
Power consumption	≤ 4.5 W						
Power loss, typical	≤ 2.26 W						
0-signal	0...5 VDC						
1-signal	20...30 VDC						
Current input	45 mA						
Output current	30 mA						
Output voltage	U=18 V						
Output curve	<p>U_N [V]</p> <p>I_N [mA]</p>						
Limit frequency	≤ 500 Hz						
Galvanic separation							
Test voltage	2.5 kV						
Ex approval acc. to conformity certificate	TÜV 09 ATEX 555410						
Application area	II (1) G, II (1) D						
Protection type	[Ex ia Ga] IIB; [Ex ia Da] IIIC						
Max. output voltage U _o	≤ 21.1 V						
Max. output current I _o	≤ 75.3 mA						
Max. output power P _o	≤ 898 mW						
Rated voltage	250 V						
Characteristic	angular						
Internal inductance/capacitance L/C _i	negligibly small						
External inductance/capacitance L _e /C _e	<table border="1"> <tr> <td>Ex ia</td> <td>II B</td> </tr> <tr> <td>Lo [mH]</td> <td>12</td> </tr> <tr> <td>Co [nF]</td> <td>620</td> </tr> </table>	Ex ia	II B	Lo [mH]	12	Co [nF]	620
Ex ia	II B						
Lo [mH]	12						
Co [nF]	620						
Approval	SIL 3						
MTTF	100 years acc. to SN 29500 (Ed. 99) 40 °C						
Indication							
Operational readiness	green						
Switching state	yellow						
Protection class	IP20						
Ambient temperature	-25...+70 °C						
Storage temperature	-40...+80 °C						
Dimensions	118x 18x 103 mm						
Weight	135 g						
Mounting instruction	Mounting and operation only in conjunction with the IMB backplane						
Housing material	Polycarbonate/ABS						