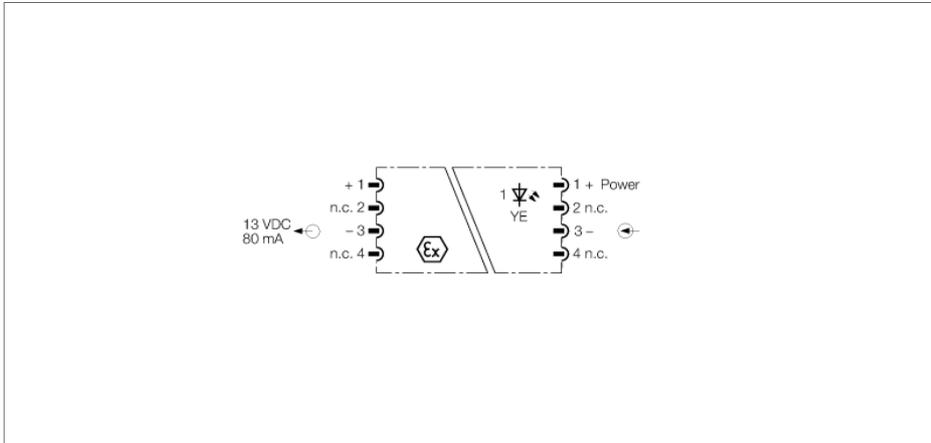




**Valve control module**  
**1-channel**  
**IMC-DO-111Ex/L**

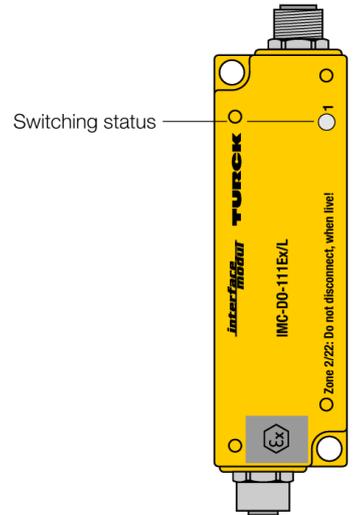
**TURCK**

Industrial  
Automation



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

The device is loop-powered. External power supply is not required.



- Intrinsically safe input circuits Ex ia
- Application area acc. to ATEX: II (1) GD
- High Power Output
- Galvanic separation of input circuits, output circuits and power supply
- Protection class IP67
- Cable with M12 connectors



# Valve control module

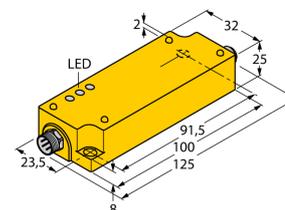
## 1-channel

### IMC-DO-111Ex/L

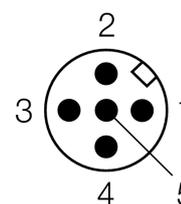
**TURCK**

Industrial  
Automation

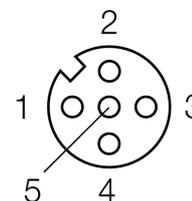
#### Dimensions



#### pin configuration M12 connectors



#### pin assignment female M12 (intrinsically safe end)



<b>Type</b>	IMC-DO-111Ex/L									
Ident-No.	7560013									
<b>Nominal voltage</b>	Loop-powered									
<b>1-signal</b>	20...30 VDC									
Voltage input	max. 30 VDC									
Current input	45 mA									
Input delay	≤ 1 ms									
<b>Output circuits</b>	intrinsically safe acc. to EN 60079									
Output current	80 mA									
Output voltage	13 V									
<b>Limit frequency</b>	≤ 500 Hz									
<b>Galvanic separation</b>										
Test voltage	2.5 kV									
<b>Ex approval acc. to conformity certificate</b>	IBexU 06 ATEX 1168									
Application area	II (1) GD									
Protection type	[Ex ia] IIB									
Max. output voltage $U_o$	≤ 16.1 V									
Max. output current $I_o$	≤ 178 mA									
Max. output power $P_o$	≤ 2400 mW									
Rated voltage	250 V									
Characteristic	Rectangular									
Internal inductance/capacitance L/C,	negligibly small									
External inductance/capacitance L/C,										
	<table border="1"> <thead> <tr> <th>Ex ia/ib</th> <th colspan="2">IIB</th> </tr> </thead> <tbody> <tr> <td>Lo [mH]</td> <td>1</td> <td>0.15</td> </tr> <tr> <td>Co [μF]</td> <td>1.9</td> <td>2.5</td> </tr> </tbody> </table>	Ex ia/ib	IIB		Lo [mH]	1	0.15	Co [μF]	1.9	2.5
Ex ia/ib	IIB									
Lo [mH]	1	0.15								
Co [μF]	1.9	2.5								
<b>Indication</b>										
Switching state	yellow									
<b>Protection class</b>	IP67									
Ambient temperature	-25...+70 °C									
Storage temperature	-40...+80 °C									
Dimensions	100 x 32 x 25 mm									
Weight	0 g									
Mounting instruction	Mounting on backplane									
Housing material	Polycarbonate/ABS									
Electrical connection	M12 flange connection									