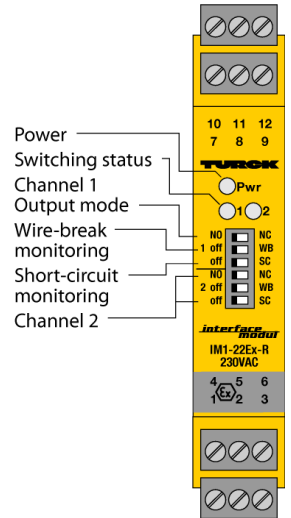
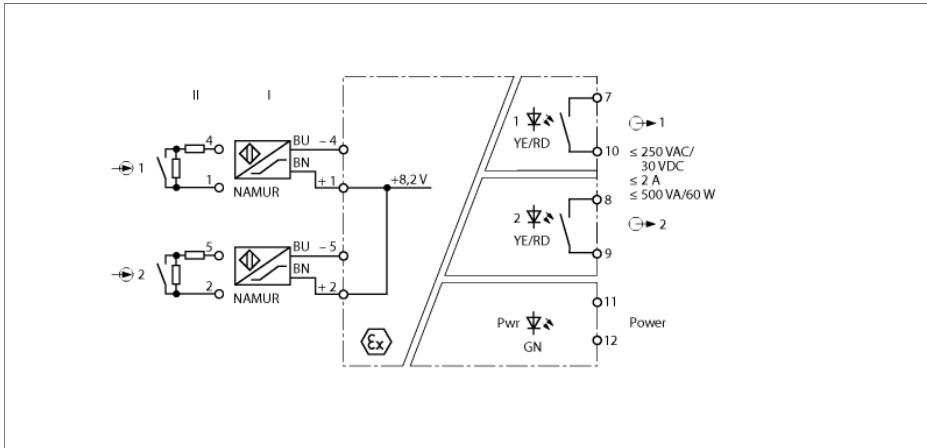


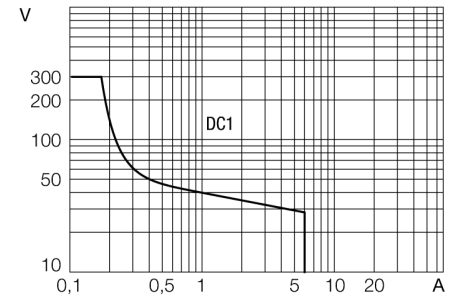
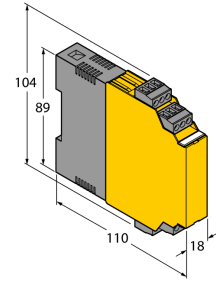
**Isolating switching amplifier
2-channel
IM1-22EX-R/230VAC**



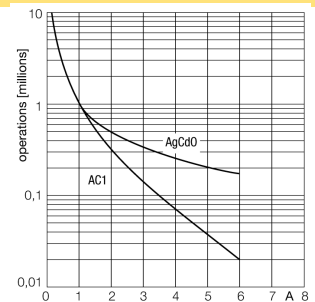
- Intrinsically safe input circuits Ex ia
- Application area acc. to ATEX: II (1) G; II (1) D
- Signal flow direction adjustable (NO/NC)
- Input circuits monitored for wire-break/short-circuit (ON/OFF switchable)
- Removable terminal blocks

**Isolating switching amplifier
2-channel
IM1-22EX-R/230VAC**

Type code	IM1-22EX-R/230VAC																				
Ident no.	7541211																				
Operating voltage	196...253 VAC																				
Frequency	48...62 Hz																				
Power consumption	≤ 2 VA																				
NAMUR	EN 60947-5-6																				
No-load voltage	8 VDC																				
Short-circuit current	8 mA																				
Input resistance	1 kΩ																				
Cable resistance	≤ 50 Ω																				
Switch-on threshold:	1.55 mA																				
Switch-off threshold:	1.75 mA																				
Wire breakage threshold	≤ 0.1 mA																				
Short-circuit threshold	≥ 6 mA																				
Output circuits (digital)	2 x relays (NO)																				
Relay switching voltage	≤ 250 VAC/120 VDC																				
Switching current per output	≤ 2 A																				
Switching capacity per output	≤ 500 VA/60 W																				
Switching frequency	≤ 10 Hz																				
Contact quality	AgNi, 3μ Au																				
Ex approval acc. to conformity certificate	PTB 00 ATEX 2033																				
Application area	II (1) G, II (1) D																				
Protection type	[Ex ia Ga] IIC; [Ex ia Da] IIIC																				
Max. output voltage U _o	≤ 9.6 V																				
Max. output current I _o	≤ 21.4 mA																				
Max. output power P _o	≤ 26 mW																				
Characteristic	linear																				
Internal inductance/capacitance L _i /C _i	C _i negligibly small, L _i = negligibly small																				
External inductance/capacitance L _e /C _e																					
	<table border="1"> <thead> <tr> <th></th> <th>Ex ia</th> <th>IIC</th> <th colspan="2">IIIC</th> </tr> </thead> <tbody> <tr> <td>Lo [mH]</td> <td>1</td> <td>5</td> <td>1</td> <td>5</td> </tr> <tr> <td>Co [μF] (2 Klemmen)</td> <td>1,1</td> <td>0,84</td> <td>6,2</td> <td>4,4</td> </tr> <tr> <td>Co [μF] (3 Klemmen oder mehr)</td> <td>1,1</td> <td>0,8</td> <td>6,2</td> <td>4,3</td> </tr> </tbody> </table>		Ex ia	IIC	IIIC		Lo [mH]	1	5	1	5	Co [μF] (2 Klemmen)	1,1	0,84	6,2	4,4	Co [μF] (3 Klemmen oder mehr)	1,1	0,8	6,2	4,3
	Ex ia	IIC	IIIC																		
Lo [mH]	1	5	1	5																	
Co [μF] (2 Klemmen)	1,1	0,84	6,2	4,4																	
Co [μF] (3 Klemmen oder mehr)	1,1	0,8	6,2	4,3																	
MTTF	400 years acc. to SN 29500 (Ed. 99) 40 °C																				
State/ Fault	2 x yellow / red																				
Mechanical Data																					
Protection class	IP20																				
Storage temperature	-40...+80 °C																				
Relative humidity	≤ 95%																				
Dimensions	104x 18x 110 mm																				
Weight	148 g																				
Mounting instruction	For mounting on DIN rail or mounting panel																				
Housing material	Polycarbonate/ABS																				
Electrical connection	4 x 3-pole removable terminal blocks, reverse polarity protected, screw connection																				
Terminal cross-section	1 x 2.5 mm ² / 2 x 1.5 mm ²																				
Tightening torque	0.5 Nm																				



Output relay electrical lifetime



Accessories

Type code	Ident no.	Description	Dimension drawing
IM-CC-3X2BU/2BK	6900475	Cage clamp terminals for IM modules (Ex devices; width 18 mm); 2 blue/2 black, 3-pin, included in delivery.	