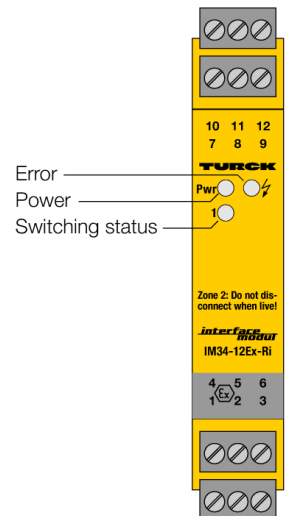
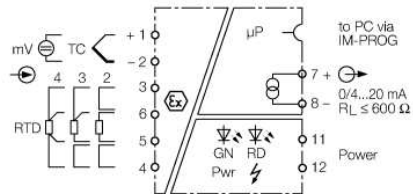


**Temperature measuring amplifier
1-channel
IM34-11EX-CI/K51**



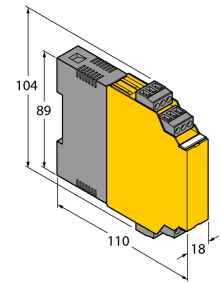
- Intrinsically safe input circuits Ex ia
- Application area acc. to ATEX: II (1) G; II (1) D
- Installation in zone 2
- Input for Pt100/ Ni100 resistors, thermocouples and millivolt signals in 2, 3 or 4-wire technology
- Parametrization via PC using PACTware™
- Output: 0/4...20 mA
- HART®
- Removable terminal blocks
- Complete galvanic separation

Temperature measuring amplifier

1-channel

IM34-11EX-CI/K51

Type code	IM34-11EX-CI/K51									
Ident no.	7506635									
Nominal voltage	Universal voltage supply unit									
Operating voltage	20...250 VAC									
Frequency	40...70 Hz									
Operating voltage range	20...125 VDC									
Power consumption	≤ 3 W									
Input circuits	Pt100 thermocouple									
Pt100	(IEC 751), 2, 3 and 4-wire technology									
Ni100	(DIN 43760), 2, 3 and 4-wire technology									
Probe current	≤ 0.2 mA									
Thermoelements	B, E, J, K, N, R, S, T (ITS 90/IEC 584), L (DIN 43710)									
Voltage input	-0.160...+0.160 VDC									
Output circuits										
Output current	0/4...20 mA									
Load resistance current output	≤ 0.6 kΩ									
Fault current	0 / 22 mA adjustable									
Switching frequency	≤ 1 Hz									
Reference temperature	23 °C									
Accuracy current output	± 5 µA									
Temperature drift analogue output	0.0025 %/K									
Temperature drift RTD input	± 3 mΩ/K									
Temperature drift TC input	3.2 µV / K (of 320mV)									
Accuracy RTD input	± 50 mΩ									
Accuracy TC input	± 15 µV									
Cold junction compensation error	2-wire < 100mΩ after line compensation 3-wire < 100mΩ with asymmetrical wiring 4-wire < 50mΩ with cold junction compensation with IM-3-CJT < 1K									
Galvanic separation										
Test voltage	4.0 kV									
Ex approval acc. to conformity certificate	TÜV 02 ATEX 1898									
Application area	II (1) G, II (1) D									
Protection type	[Ex ia Ga] IIC ; [Ex ia Da] IIIC ;									
Max.output voltage U _o	≤ 5 V									
Max. output current I _o	≤ 2.5 mA									
Max. output power P _o	≤ 3 mW									
Rated voltage	250 V									
Characteristic	linear									
Internal inductance/capacitance L _i /C _i	negligibly small									
External inductance/capacitance L _e /C _e	<table><tr><td></td><td>EEx ia IIC</td><td>EEx ia IIB</td></tr><tr><td>Lo [mH]</td><td>1000</td><td>1000</td></tr><tr><td>Co [µF]</td><td>100</td><td>1000</td></tr></table>		EEx ia IIC	EEx ia IIB	Lo [mH]	1000	1000	Co [µF]	100	1000
	EEx ia IIC	EEx ia IIB								
Lo [mH]	1000	1000								
Co [µF]	100	1000								
Ex approval acc. to conformity certificate	TÜV 06 ATEX 552978 X									
Application area	II 3 G									
Protection class for belonging equipment	Ex nA [ic Gc] IIC T4									
Max.output voltage U _o	≤ 5 V									
Max. output current I _o	≤ 2.5 mA									
Max. output power P _o	≤ 3 mW									
Internal inductance/capacitance L _i /C _i	negligibly small									
External inductance/capacitance L _e /C _e	<table><tr><td>Ex ic</td><td>IIC</td><td>IIB</td></tr><tr><td>Lo [mH]</td><td>100</td><td>100</td></tr><tr><td>Co [µF]</td><td>3.6</td><td>18</td></tr></table>	Ex ic	IIC	IIB	Lo [mH]	100	100	Co [µF]	3.6	18
Ex ic	IIC	IIB								
Lo [mH]	100	100								
Co [µF]	3.6	18								
Ex approval acc. to conformity certificate	IS-1.106									
MTTF	200 years acc. to SN 29500 (Ed. 99) 40 °C									



Temperature measuring amplifier
1-channel
IM34-11EX-CI/K51

Indication

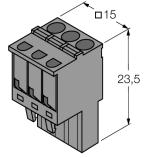
Operational readiness green

Protection class

Ambient temperature	IP20
Storage temperature	-25...+70 °C
Storage temperature	-40...+80°C
Dimensions	104x 18x 110 mm
Weight	135 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

Temperature measuring amplifier
1-channel
IM34-11EX-CI/K51

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.	
IM-PROG III	7525111	The programming adapter IM-PROG III is used for parametrization of TURCK IM and IMB devices via FDT/DTM and for galvanic separation.	