



4 NAMUR sensors, optocouplers, mechanical contacts or other operating elements can be connected to the isolator amplifier in an intrinsically safe way. The intrinsically safe inputs are safely galvanically isolated from the supply voltage and the outputs in accordance with EN/IEC 60079-11. Open and short circuits on the sensor lines are detected and signalled via an additional transistor output as group fault signal. LEDs display the output states.

Explosion protection

Marking ATEX	II 2G Ex db e IIC Gb II M2 Ex db e I Mb	
Certification	PTB 97 ATEX 1068 U TÜV 97 ATEX 1211 X	
Marking IECEx	Ex db e [ia Ga] IIC Gb Ex db e [ia Ma] I Mb	
Certification	IECEx PTB 11.0083U IECEx TUN 11.0027X	
Marking CSA	Class I, Zone 1, IIC A/Ex d e [ia] IIC Gb	
Certification	CSA 2011-2484303U	
Fitting	Type 17-5521-4.../.... II (1) G / II (1) D [Ex ia Ga] IIC [Ex ia Da] IIIC	$U_m = 253 \text{ V}$ $I_o = 30 \text{ mA}$ $U_o = 11.55 \text{ V}$ $P_o = 86.4 \text{ mW}$

Other approvals and certificates, see www.bartec.de

Technical data

Construction	Flameproof, clip-on enclosure for TH 35 rail	
Enclosure material	High-quality thermoplastics	
Protection class	Module	IP 66 EN/IEC 60529
	Terminals	IP 20 EN/IEC 60529
	Terminals with cover	IP 30 EN/IEC 60529
Terminals	2.5 mm ² , fine stranded	
Mounting rail	TH 35 x 7.5 (15) EN/IEC 60715	
Terminal designation	written marking labels	
Ambient temperature	-20 °C to +50 °C	
Storage temperature	-40 °C to +60 °C	
Weight	0.640 kg	

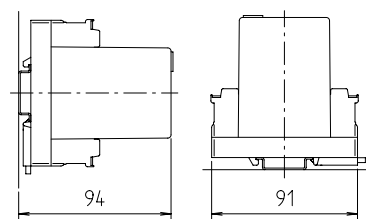
Electrical data

Supply voltage	DC 20 V to DC 30 V	
Power consumption	max. 580 mA	
Power dissipation	$P_v = \text{max. } 2.4 \text{ W}$	
Galvanic isolation	Inputs/power supply, outputs	
Inputs		
Voltage	$U_a = 8.2 \text{ V}$	
Switching thresholds	open circuit	< 0.26 mA
	damped	< 1.2 mA
	undamped	> 2.1 mA
	short circuit	> 7.4 mA
Outputs		
Transistor outputs	output current	channel max. 100 mA
	signal level	1 - signal = $U_b - 1 \text{ V}$ 0 - signal = 0.9 V
	Switching frequency	1.5 kHz
Displays	LED's for all outputs	
Line monitoring	always active, separate fault signal output	

Notes

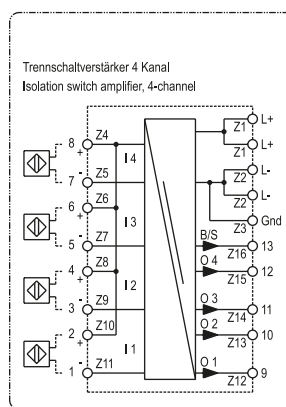
- Observe the terminal assignment
- Transistor output is not short-circuit proof
- For open/short-circuit monitoring with contact scan, use 1 kΩ/10 kΩ resistive coupling element; Type 17-9Z62-0002

Dimensions/mounting positions



Module width: 75 mm

Wiring diagram/terminal assignment



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Status chart

Input		B/S	Out	B/S	Out	B/S	Out
damped			0	1	0	0	1
undamped			0	0	0	1	0
open circuit			1	1	1	0	0
short circuit			1	0	1	1	0
	Code no.	12		22		32	

Complete order no. 07-7311-97MT/BA

Please insert correct code. Technical data subject to change without notice.