

Уровнемеры

Prosonic FMU673Z, Prosonic FMU678Z

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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FMU 673Z/678Z

Safety instructions for electrical apparatus certified for use in explosion-hazardous areas



Designation according to Directive 94/9/EC: **CE** 

II (1) GD

- Equipment Group II _____
- Associated apparatus with output circuits of Category 1 _____
- For explosive mixtures of air and gases, mists, vapours or dusts _____

General description of the areas of application:

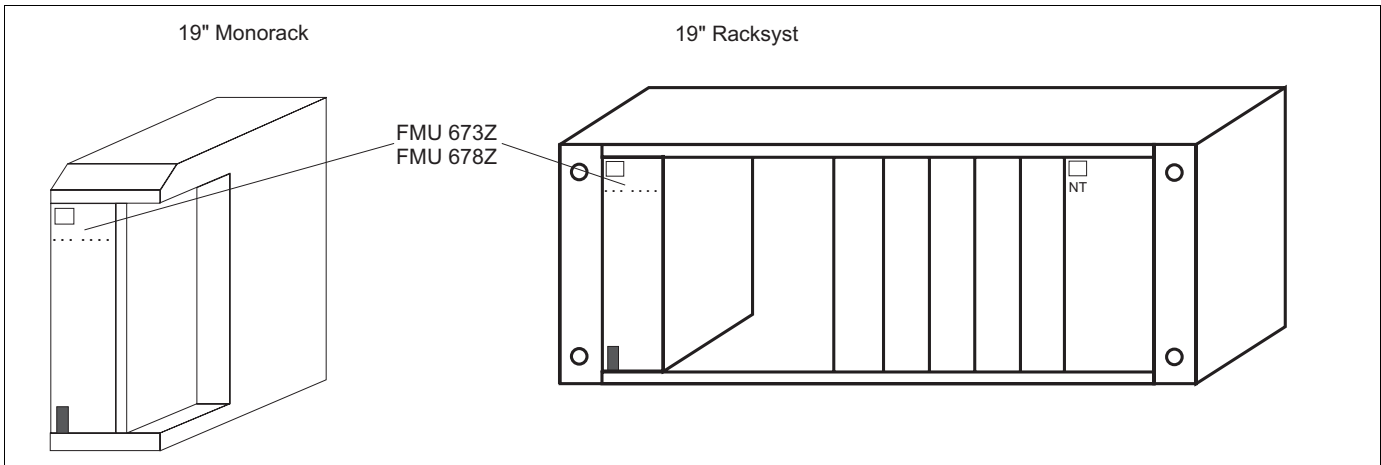
Equipment Category	Hazard due to explosive gas-air mixtures (G)	Hazard due to explosive dust-air mixtures (D)
Category 1	Zone 0, 1 or 2	Zone 20, 21 or 22
Category 2	Zone 1 or 2	Zone 21 or 22
Category 3	Zone 2	Zone 22

Designation of the explosion protection:

[EEx ia] IIC/IIB

- Associated apparatus to European standard _____
- Type of protection _____
- Apparatus group _____



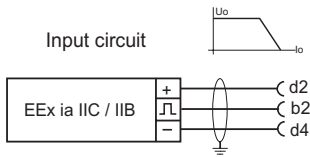


Explosion hazardous area
Zone 0, Zone 20

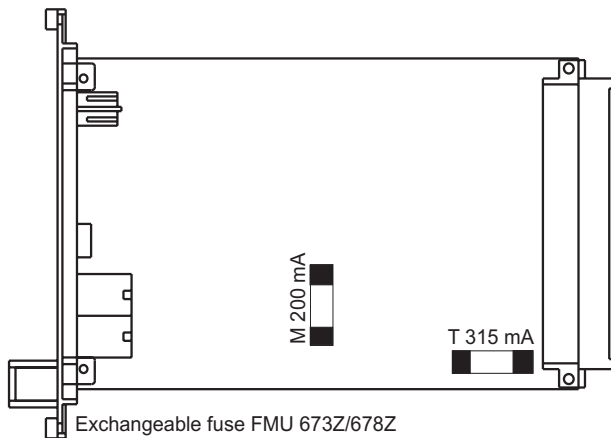
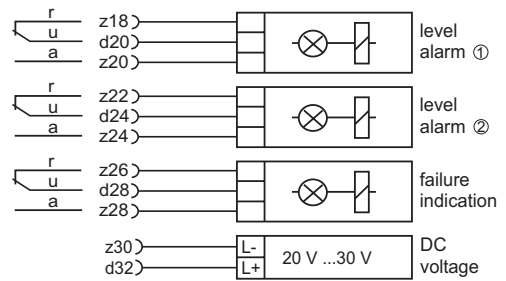
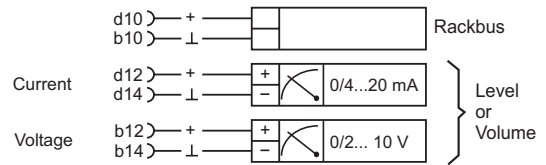
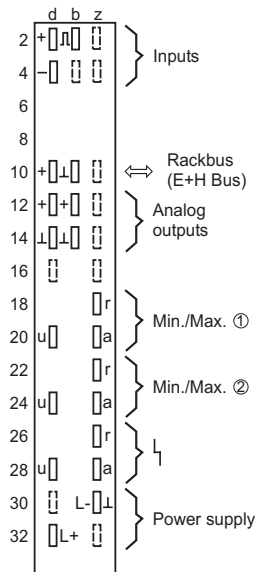


Non-hazardous area

Input circuit



Nivosonic FMU 673Z, FMU 678Z



Exchangeable fuse FMU 673Z/678Z

17	FMU 673Z/678Z
②	Coding pins of
③	the associated
④	apparatus at
⑤	positions 1 + 28
⑥	
⑦	
⑧	
⑨	
⑩	
⑪	
⑫	
⑬	
⑭	
⑮	
⑯	

Range of ambient temperature: Ta = -20 °C ... +70 °C				
Power supply circuit	Pins:	z30, d32	U = 20 ... 30 VDC, ca. 3,8 W Um = 250 VAC	
Relay contact circuit	Pins:	z26, d28, z28 z22, d24, z24 z18, d20, z20	alternating current U ≤ 250V I ≤ 2,5 A P ≤ 600 VA Cos φ = 1	direct current U ≤ 100 V I ≤ 2,5 A P ≤ 90 W
Current output	Pins:	d12, d14	I = 0/4 ... 20 mA	
Voltage output	Pins:	b12, b14	U = 0/2 ... 10 V	
Rackbus	Pins:	d10, b10	U ≤ 5 V; I ≤ 300 mA	
Input circuit	Pins:	d2, b2, d4	Uo ≤ 18 V PO ≤ 790 mW	IO ≤ 106 mA Ri = 315 Ω
Connection data			[EEx ia] IIC	[EEx ia] IIB
			La	Ca
			0.2 mH	230 nF
			La	Ca
			1 mH	1.2 μF

Safety Notes level transmitter NIVOSONIC FMU 673Z, FMU 678Z

- 1.) Install according to the manufacturer's instructions and other valid standards and guidelines.
- 2.) Follow the installation and safety instructions contained in the Operating Instructions.
- 3.) Do not operate the instrument outside the specified electrical and thermal parameters.
- 4.) The level transmitter NIVOSONIC FMU 673Z or 678Z is an integral apparatus and may only be used outside explosion hazardous areas.
- 5.) If the module is to be installed into a conventional 19" rack, the requirements specified in EN 50020 with respect to the distances to adjacent modules shall be observed.
- 6.) The intrinsically safe input circuits of the FMU 673Z or 678Z are safely isolated against the other circuits up to a peak value of the rated voltage of 375 V.
- 7.) Fuses shall only be replaced by those of the same style and same rating.

315 mA/250 V 5x20 fuse link

Rated current	Switching capacity	Characteristic
315 mA	≥ 35 A/250 V	slow-acting

200 mA/250 V 5x20 fuse link

Rated current	Switching capacity	I ² T	Characteristic	ΔU at 1,0 I _{rat}
200 mA	≥ 35 A/250 V	0,3 A ² s	träge	0,6 V

Special conditions (X marking)

- 1.) The level transmitter NIVOSONIC FMU 673Z or 678Z including its connecting pieces must be installed such that a degree of ingress protection of at least IP 20 to IEC 60 529 is attained.
- 2.) On connection, a partition must be inserted between the intrinsically safe and non-intrinsically safe and non-intrinsically safe circuits so that a minimum gap (tight string length) of 50 mm is maintained between the terminals.
- 3.) When mounting in the certified assembly rack Racksyst (PTB 02 ATEX 2079 U) the requirements No.1 and No. 2 are fulfilled..
- 4.) If the intrinsically-safe circuit passes through dust explosion-hazardous areas of Zones 20 or 21, make sure that the devices connected to this circuit meet the requirements of categories 1D or 2D and are certified accordingly.

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