

IMN TBEX INOX



Process connection	By top screw. SS AISI316 (1.4401). See table 1
Guide tube	SS AISI316 (1.4401), Ø 12 mm
Length	1003500 mm.
Float	FEI601M13 (FEI-1), Ø 52x52 mm. SS AISI316 (1.4401). Other options to float table
Number of contacts	13
Type of contact	NO: 120 WVA / 250 VAC-3A · NC-NO/NC: 60 W VA / 230 VAC-1A
Distance between contacts	> 40 mm.
Electrical connection	By aluminium connection housing (Ø 64,5x100 mm).
Altitude separation	When required, a higher altitude separation than the standard one can be ordered.
Temperature	-40+125°C
Mounting position	Vertical, ±30°
Protection	IP 65. Insulated filled with epoxy resine, flexible.

Ex ATEX certification

The sensor IMN TBEX INOX is considered a "**Simple Electrical Apparatus**" and it is not necessary neither to be marked nor to be certified according to the ATEX directive. It can be used in clasified areas as intrinsic safety, whenever be connected with an associated device such as a zener barrier or a galvanic isolator (see next page). The category and installation zone corresponds to ones specified in the barrier/isolator. These chracteristics are defined in the standards EN60079-11, EN60079-14 and EN60079-25.

Applicable to: Zone 0, 1, 2, 20, 21 and 22.

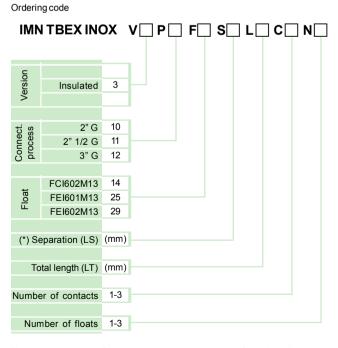
Nevertheless, the following elements are certified ATEX:

- Housing: FM08ATEX0010U 🕼 II 2 G Ex d IIC Gb / II 2 D Ex tb IIIC Db
- Terminals: SIRA02ATEX3001U 🐼 Exell 2GD
- Cable gland: LCIE 97 ATEX 6006 X 🐼 II 2 G-D EExell/EExdIIC

Table 1: Process connection

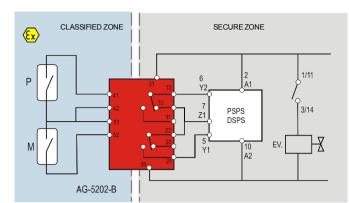
E (mm) 36 85 4 H (mm) 20 21 5 h (mm) 15 14 6	Gas screw	2"	2"1/2	3"	► E
	E (mm)	36	85	5	
h (mm) 15 14 🖉	H (mm)	20	21	SU,	
	h (mm)	15	14	Ś	

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	Model	FCI602M13	FEI601M13	FEI602M13		
Floats	Material	SS AISI316L (1.4404)				
	Dimension (mm)	Ø 44x63	Ø 52	Ø 95		
	Pressure (kg/cm ²)	15	30	30		
	Density (g/cm ³)	e > 0,75	e > 0,76	e > 0,36		
	FS / FH (mm)	15,8 / 47,2	12,5 / 39,5	60,8 / 34,2		
	- FS FH					

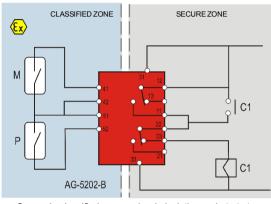


To compose the reference, choose one option of each cell. Example: IMN TBEX INOX V3 P11 F14 L500 C2 N1

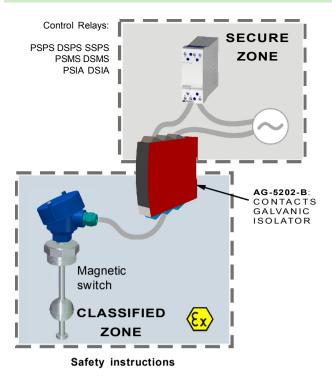
Application example



Sensor in classified zone, galvanic isolation and start-stop operation by contacts protector PSPS / DSPS.



Sensor in classified zone, galvanic isolation and start-stop operation by contactor.



Assembly for intrinsic safety

For a safe installation of the sensor IMN in hazardous areas, the following instructions must be accomplished:

 \cdot The sensor must be installed only by a qualified personnel, who are familiar with national and international laws and standards and guidelines for implementing this type of environements.

For further information, consult the standard EN 60 079-14 for electrical installations in hazardous areas.

		SPS DSPS SSPS	PSMS DSMS	PSIA DSIA	
	Ex				
Function	Galvanic insulation for contacts. ATEX classifying.	Protection of weak contacts in analog	Contact amplifier with two independent impuls.	Control of the level detection in liquids with turbulences. Delay on level detection. Diferential control of the maximum and mininimum level through time interval.	
Assembly dimens. (mm)	109 x 23,5 x 130 (DIN rail)	instruments.			
Approvals	Ex II (1) G D [EEx ia] IIC				
Applicable to zones	0, 1, 2, 20, 21 or 22				
Input	2 Contacts				
Output	AG-5202-B2: 1 SPDT, 2A/250VAC AG-5202-B4: 2 SPST NO, 2A/ 250VAC				
Supply	24230 VDC ±10% 50/60 Hz 24250 VDC ±20%				

Accessories

Segle XX, 91 E08032-Barcelona Rev. 06/00 \cdot 06/07/20 \cdot DISIBEINT reserves the right to modify this document without previous notice.

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