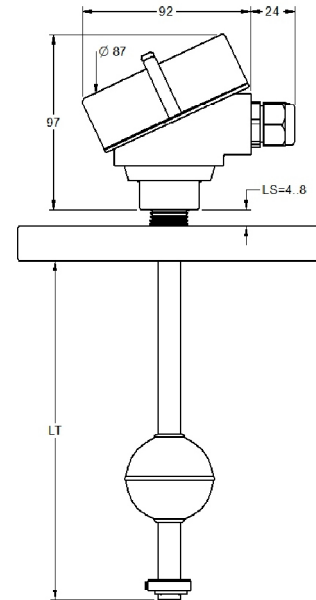
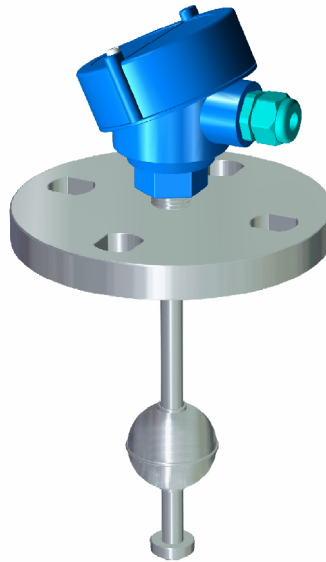


IMN DBEX INOX



MAGNETIC LEVEL SWITCH FOR INTRINSIC SAFETY INSTALLATIONS



| | |
|---------------------------|--|
| Process connection | By flange, SS AISI316 (See table 1). |
| Guide tube | SS AISI316, Ø 12 mm. |
| Length | 100..3500 mm. |
| Float | Standard: FEI601M13 (FEI-1), Ø 52x52 mm. SS AISI316 (Other options to float table). |
| Number of contacts | 1..3 |
| Type of contact | NO: 120 WVA / 250 VAC-3A · NC: 60 WVA / 230 VAC-1A |
| Distance between contacts | > 40 mm. |
| Electrical connection | By aluminium connection box (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, ±15° |
| Protection | IP 65. Insulated with epoxy resine, flexible. |

ATEX certification

The sensor IMN DBEX 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 classified 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 characteristics 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: CFM08ATEX0010U - II 2 G Ex d IIC Gb / II 2 D Ex tb IIC Db
- Terminals: SIRA02ATEX3001U - Exell 2GD
- Cable gland: LCIE 97 ATEX 6006 X - II 2 G-D EExell/EEExdIIC

Table 1: Process connection

| Flange | DN25 | DN32 | DN40 | DN50 | DN100 |
|--------------------|------|------|------|------|-------|
| n x t (mm) | 4x14 | 8x18 | | | |
| Ø d (mm) | 85 | 100 | 110 | 125 | 180 |
| D (mm) | 115 | 140 | 150 | 165 | 220 |
| Thickness(LCP)(mm) | 18 | | | | 20 |

| Floats | Model | FCI602M13 | FEI601M13 | FEI602M13 |
|--------|-------------------|----------------------|-------------|-------------|
| | Material | SS AISI316L (1.4404) | | |
| | Dimension (mm) | Ø 44x63 | Ø 52x52 | Ø 95x95 |
| | Pressure (kg/cm²) | 15 | 30 | 30 |
| | Density (g/cm³) | e > 0,75 | e > 0,76 | e > 0,36 |
| | FS / FH (mm) | 15,8 / 47,2 | 12,5 / 39,5 | 60,8 / 34,2 |
| | | | | |

Ordering code

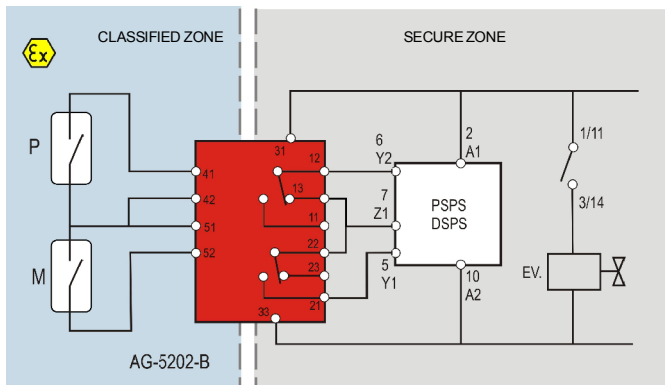
IMN DBEX INOX - V ☐ **P** ☐ **F** ☐ **S** ☐ **L** ☐ **C** ☐ **N** ☐

| Version | Insulated | |
|--------------------------|-----------|----|
| | 3 | |
| Connect. process | DN25 | 34 |
| | DN32 | 35 |
| | DN40 | 36 |
| | DN50 | 37 |
| | DN100 | 39 |
| Float | FEI601M13 | 14 |
| | FEI602M13 | 25 |
| | FCI602M13 | 29 |
| (*) Separation (LS) (mm) | | |
| Total length (LT) (mm) | | |
| Number of contacts | | |
| 1-3 | | |
| Number of floats | | |
| 1-3 | | |

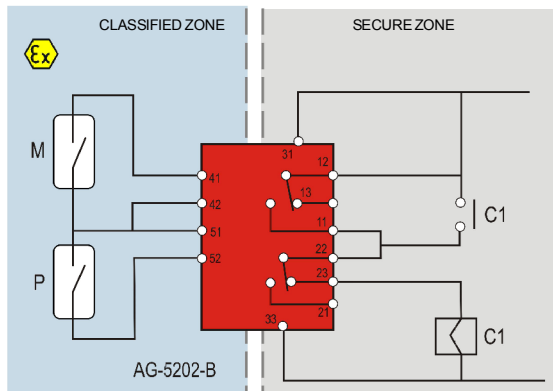
To compose the reference, choose one option of each cell.

Example: **IMN DBEX INOX V3 P34 F14 L500 C2 N1**

Application example

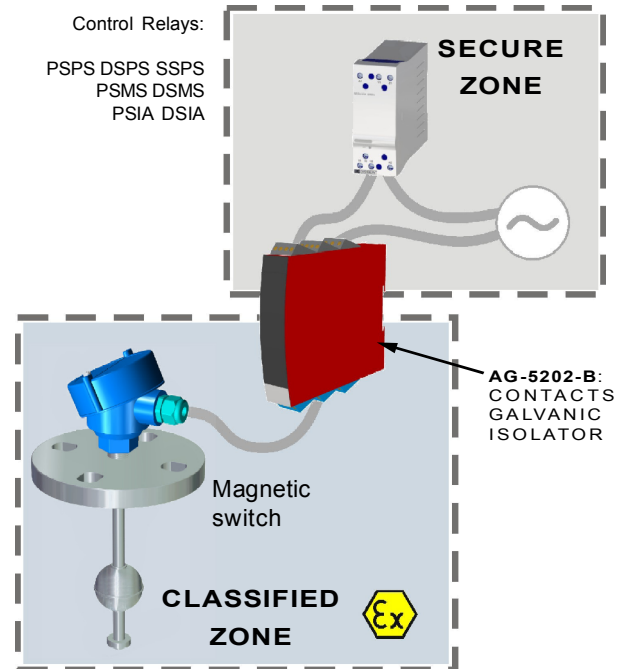


Sensor in classified zone, galvanic isolation and start-stop operation by contacts protector PSPS / DSPS.



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

Assembly for intrinsic safety



Safety instructions

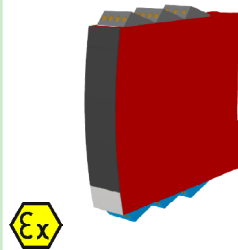
For a safe installation of the sensor IMN in hazardous areas, the following instructions must be accomplished:

- 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 environments.

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

Accessories

AG-5202-B



| | |
|---------------------|--|
| Function | Galvanic insulated for contacts. ATEX classifying. |
| Assembly dims. (mm) | 109 x 23,5 x 130 (DIN rail) |
| Approvals | Ex II (1) G D [EEEx 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 | 24..230 VDC $\pm 10\%$ 50/60 Hz 24..250 VDC $\pm 20\%$ |
| More information | Page 79, General Catalogue 2008. www.disibeint.com |

PSPS DSPS SSPS



Protection of weak contacts in analog instruments.

PSMS DSMS



Contact amplifier with two independent impuls.

PSIA DSIA



Control of the level detection in liquids with turbulences. Delay on level detection. Differential control of the maximum and minimum level through time interval.

Page 62, General Catalogue 2008.
www.disibeint.com