



SOLIBA Ex « GP » version

(gas & dust) – ATEX Certified

LEVEL DETECTOR FOR SOLIDS

For high level detections

ATEX Marking code - CE 0081 Ex II 1 GD Ex ia IIC T6 Ga Ex ta IIIC T70°C Da IP68

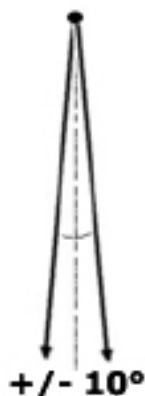
USE

Stops the filling

SIZE

Height: 200 mm – Diameter: 92 mm

DIFFERENTIAL ANGLE



WIRING



Please, refer to the connection diagram enclosed to each float delivered.

APPLIANCES

This device has a double housing and is especially suitable for use in explosive areas. It has been designed for the solids level detections (cereals, granulars, pulverulents). Placed vertically, it is recommended to stop the filling of silos and storage zones. It is ATEX certified for use in areas classified 0, 1, 2 (gas) and 20, 21, 22 (dust)

TECHNICAL CHARACTERISTICS

Operation mode	By tilting
Use	To stop the filling of silos (cereals, pulverulents)
Important specification	Epecially for use in EXPLOSIVE areas 0, 1, 2
Maximum temperature	Ta: from -20°C to +70°C / idem
Protection index	IP 68
Electric characteristics	24 VAC/VDC – 10 mA or 12 VAC/VDC – 100 mA
Obligatory connection	With intrinsic safety relay
Microswitch	Gold plated contacts
Biconical / Cylindrical shell (2)	Copolymer polypropylene + HR HY (hypalon)
Cable	HR HY (hypalon) H07RN-F
Cable type	3 conductors 1 mm ²
Float weight without cable	495 g
Cable weight	HR HY 110 g/m
Adjustable ballast on cable (option)	Loaded resin 250 g
Standard cable length (series)	5, 10, 15, 20, 25 and 30 m (other lengths on request)





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ATEX CERTIFICATION – WHAT YOU SHOULD KNOW

It is important to know that the level regulation devices certified ATEX are compulsory in the main pumping stations, granular silos and some pulverulent materials storage facilities. It is also important to know that only the user can define, before the installation, if it deals or not with a pumping station or a silo with explosive risks. The atmosphere is classified 0, 1, 2 for gas and 20, 21, 22 for dust. So, it is highly recommended taking no risks in this situation as it can trigger disastrous consequences.

DEFINITION- The SOLIBA Ex "GP" version (gas and dusts) are designed and certified for use in hazardous areas classified 0, 1, 2 (gas) and 20, 21, 22 (dust). They are conform to the following standards :

- EN 60079-0 (2012)
- EN 60079-11 (2012)
- EN 60079-31 (2009)
- Potentially explosive areas of gas (IIC group) and dusts (IIIC group).

Certified LCIE 00 ATEX 6003 X according to the Directive 94/9/CE.

NOTA- The « GP » version is also suitable for an application with « Dust » (please, see technical sheet of the « P » version)

CONNECTION-PROTECTION- All connections must be performed according to the Low Voltage Directive and Intrinsic Safety instructions.

$L_1 \leq 2\mu\text{H}$ et $C_1 \leq 203\text{ pF}$ with 2 m cable length (*Lineic inductance: 0.36 mH (Millihenry)/km divisible by 1000 for a value in metre*).
 $U_0 \leq 30\text{V}$, $I_0 \leq 100\text{ mA}$, $P_0 \leq 0.75\text{ W}$ (associated intrinsically safe)

BE CAREFUL ! The non-respect of the following instructions can have serious consequences. These floats must only be connected to an intrinsically safe associated apparatus certified type. Such apparatus must be compatible with the intrinsic security instructions and must not exceed the floats electric characteristics values mentioned on the technical sheet n°1. The non respect of that would trigger the destruction of the microswitches gold plated contacts.

IMPORTANT- A use which is not specified by the constructor or an non competent authority intervention can damage the working of these devices and trigger serious consequences. The manufacturer denies all responsibility if the user does not respect the rules in relation with the protections against sanitary, fire and explosion risks.

PRODUCT FOLLOW-UP – The number of the serie and the year of production appear on each device delivered.

AT YOUR DISPOSAL- LCIE 00 ATEX 6003 X certificate. Information about the intrinsic safety relays. Connection diagrams...

