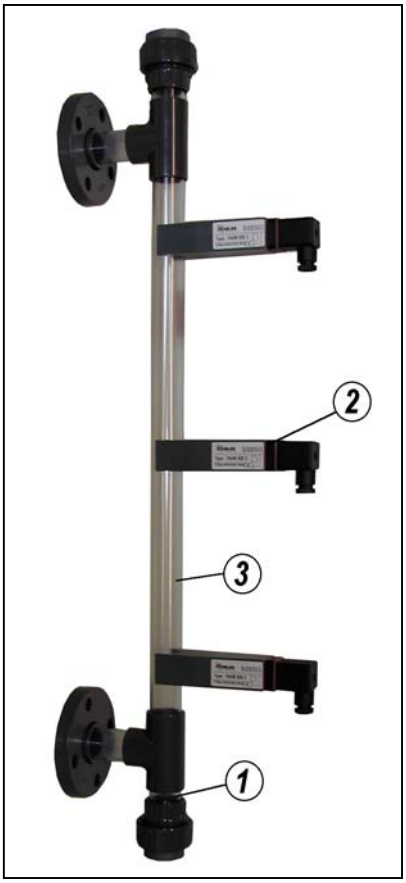
KUBLER FRANCE SA
10 Avenue d'Alsace
68702 Cernay cedex
TEL : +333.89.75.41.73
FAX : +333.89.75.53.14

TECHNICAL INSTRUCTIONS

MAGNETIC LEVEL INDICATOR DISPLAY IN TRANSLUCENT PVC: "PIPE RISER"

TYPE: BNA-DN25 PN10-M...-B32-...FKUMB32-C

OPERATING PRINCIPLE :
The pipe riser is flanged or threaded on the tank.
The level display corresponds to the fluid height in the tank.



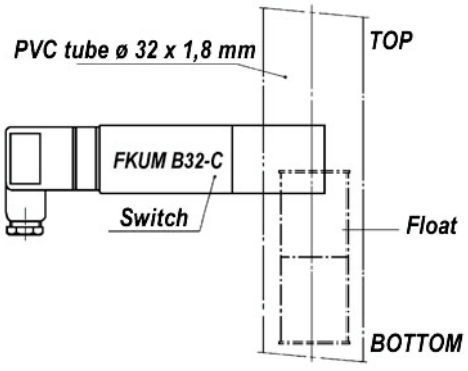
FUNCTION :
Magnetic switches (2) mounted with a transducer, allow the following functions : alarm for lack of fluid, overflow, and controlling (emptying or back filling). The visual display is given by a float (1) inside a translucent bypass tube (3). The high dimensions of the float and its color allow an easy long-distance reading.

APPLICATION :
Introduce the float in the bypass tube. The magnet's field up. Mount the magnetic switches on the bypass tube at the wanted level. Connect the magnetic switches (FKUM B32-C) to the protection relay (RP2+1) according to the connection diagram.
At the starting, the float must pass in front of each magnetic switch at least one time, in order to place it in the good electrical position (this operation is necessary, the magnetic switch having a bistable function).

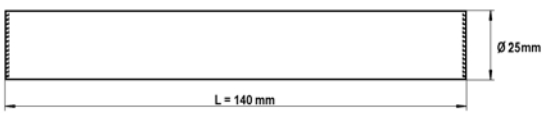
ADVANTAGE :
In case of line system undervoltage, the magnetic switch maintains his electrical function (storing).

TECHNICAL DATA:

- Chamber : translucent PVC diameter 32 x 1,8 mm.
- Upper and lower ends : screw-in thread 1'' G. with PVC unscrewable plug
- Connections : flange side DN25 PN10 in PVC.
- Float : type : SPP25 in P.P diam. 25 mm, mini density: 900kg/m^3.
- Operating pressure : atmospheric.
- Operating temperature : max. 40°C.
- Magnetic switch : type FKUM B32-C, change-over contact, breaking power : 40VA/230V/1A
  Behaviour : bistable
  Housing : consisting on a PVC single piece
  Connection : connector DIN NFE 48-411.



TYPE : SPP25 -140-2A



¤BYP/05bis-1

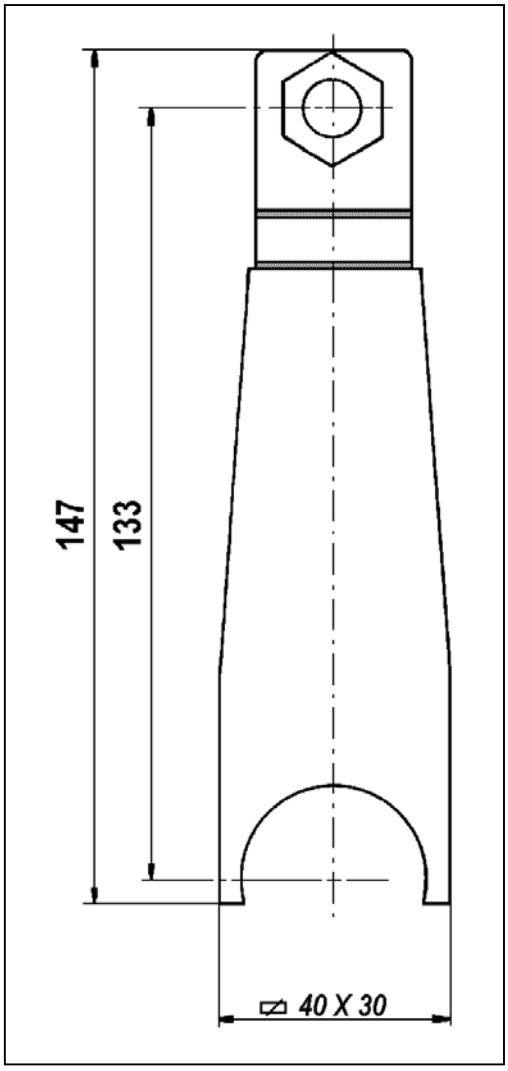
10 Avenue d'Alsace
68702 Cernay cedex
TEL : +333.89.75.41.73
FAX : +333.89.75.53.14

TECHNICAL INSTRUCTIONS

MAGNETIC SWITCH
TYPE : FKUM B32-C.

OPERATING PRINCIPLE :
An annular magnet, float-integrated, through the medium of his magnetic field, operates a switch with flexible blades (under protective atmosphere, also called REED) through the guide tube wall, allowing so no-voltage switching for a change-over function.

APPLICATION :
Float representation in lowered position. Magnetic switches having a memory function, it is necessary to make a complete cycle (one rising and one sinking of the float for a good electrical positioning of the switch).



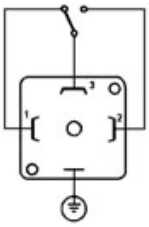
APPLICATION:
Exclusive mounting on PVC tube Ø 32 mm

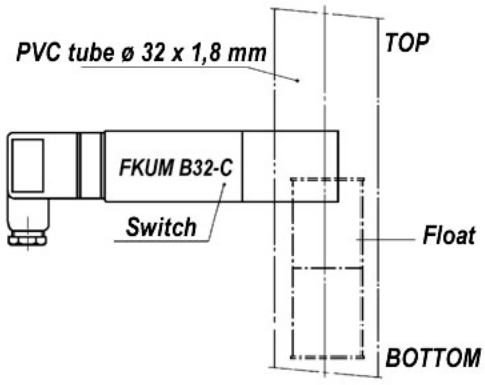
HOUSING:
Consisting on a PVC single piece

ELECTRICAL CONNECTION:
Connector DIN NFE 48-411, durethane

SWITCH RATING:
1 change-over contact
Breaking power:40VA/230AC or 1A max

CONNECTION DIAGRAM



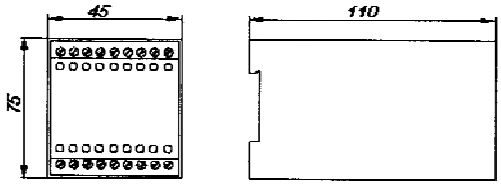


10 Avenue d'Alsace
68702 Cernay cedex
TEL : +333.89.75.41.73
FAX : +333.89.75.53.14

TECHNICAL INSTRUCTIONS

PROTECTION RELAY : RP2 + 1

DIMENSIONS



Mounting on DIN 46277 and DIN EN 50022 rail

OPERATING PRINCIPLE:

The contact protection relay is used as interface between the level detector and the resistance signal.

Its advantages are to preserve the detector's contacts by impressing them very lower currents and tensions and to ensure a galvanic insulation.

Depending on the connection type, it allows the following functions :
- auto-emptying or –filling-up + high or low alarm.

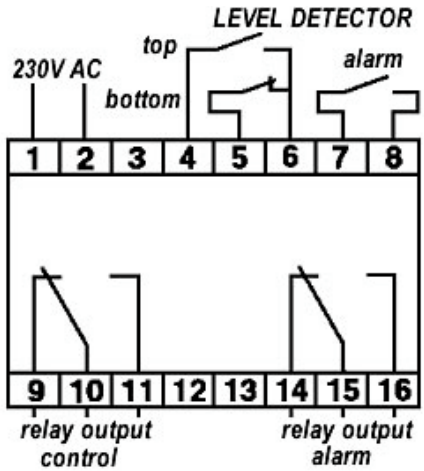
Or
- 2 functions : high and low alarm.

TECHNICAL DATA :

* Mains voltage : 24, 115, 230 V AC or 24 VDC
* Power consumption : approx. 3 VA
* Output relay : 2 change-over contacts 3A /230V/50-60 Hz
* Status signalling : switched-on diode if relay excited
* Housing : makrolon
* Ingress protection : housing : IP40
  terminal : IP20
* Ambient temperature : -20°C to + 60°C

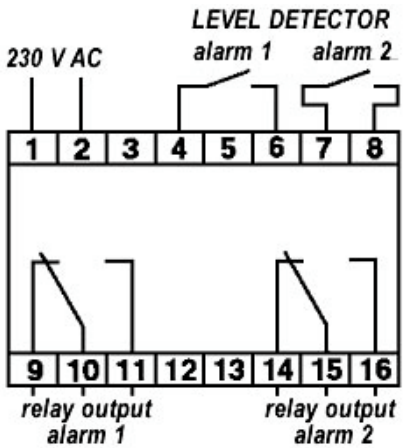
CONFIGURATION FOR :

Auto-emptying or –filling-up + high or low alarm



CONFIGURATION FOR :

2 functions : high or low alarm



KUBLER FRANCE SA

10 Avenue d'Alsace
68702 Cernay cedex
TEL : +333.89.75.41.73
FAX : +333.89.75.53.14

TECHNICAL INSTRUCTIONS

LEVEL INDICATOR MADE IN BRASS

TYPE : KFBNAP...

DESCRIPTION:

Level indicator type **KFBNAP** is used for the visualization of a level in a tank.

Situated outside the tank, the **KFBNAP** is constitued with a translucent plexiglass tube, which allows a direct visualization of the level.

With a good value for money, this device allows visualization for clean, low pressure liquids, in ambient temperature and non-aggressive.

It is classified according to the directive 97/23, paragraph 3, for any fluid.

TECHNICAL DATA:

¤ **Operating pressure:** 5 bar

¤ **Operating temperature:** 80°C

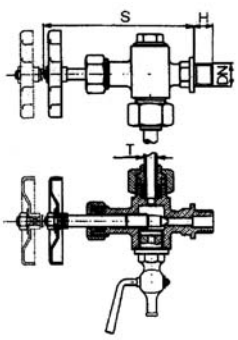
¤ **Material:** brass and tube in plexiglass (length 1m)

OPTIONAL FEATURES:

¤ **U-shaped protection tube:** brass, 1m length

DIMENSIONS (mm):

DN	*Tube Ø (T)*	*S*	*H*	*Weight (kg)*
1/4"	10	88	12	0,500
3/8"	13	97	13	0,620
1/2"	13	100	15	0,760
1/2"	16	101	15	0,780
3/4"	18	116	15	1,070
3/4"	20	116	15	1,070



Weights are indicated mounting without tubes.

¤BYP/05bis-4