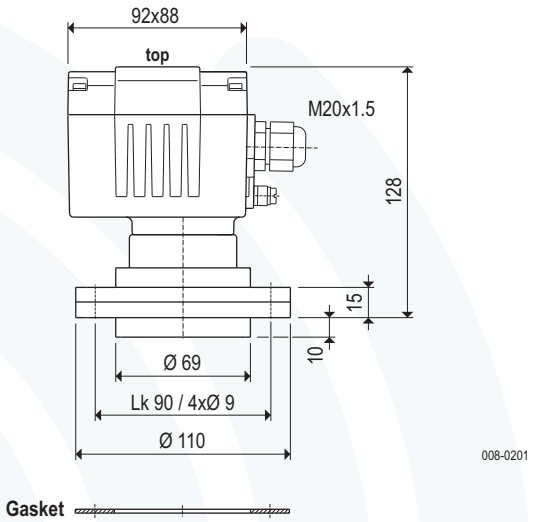
Appliance information

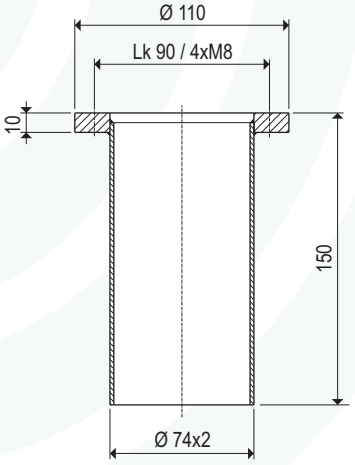
The silo pressure detector is protecting silos and vessels from too high pressure during the pneumatic filling process.

Dimensions

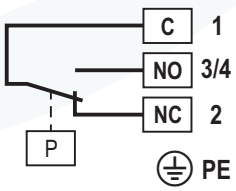


Supplies

Protruding nozzle



Wiring connection



Use

The silo pressure detector is used as limit switch to control the pressure in silos and vessels, being filled by a pneumatic conveyer system. If the pressure is reaching the switching point, the pressure detector will give a signal.

Mode of operation

Using the increasing pressure in the silo or vessel. Increases the pressure to the membrane, the signal switch registers the pressure difference and evaluates it.

Technical data

Matreials	Housing **A1**	Aluminium
	Housing **A2**	Stainless steel 1.4408 / 316
	Flange **F1A**	Aluminium
	Flange **F1I**	Stainless steel 1.4571 / 316 Ti
	Membrane	Stainless steel 1.4301 / 304
	Protruding nozzle	Steel
Bulk goods temperature	*Ts*	-25 °C ... +80 °C
Ambient temperature	*Ta*	-20 °C ... +70 °C
Signal-contact	*Contact*	change-over contact, potentialfree
Capacity of the contact		4 A / 250 V AC
Switching voltage		24 V...250 V AC or 12 V...125 V DC
Switching point	*SP*	40 mbar = 0.04 bar = 400 mm WS
Overpressure safety		up to 0.5 bar
Cable entry		Gland M20x1.5
Type of protection	*IP*	**IP66** acc. to DIN EN 60529
Weight	**A1F1A**	1.2 kg
	A1F1I	2.1 kg
	A2F1I	2.9 kg
Maintenance		none
Installation		vertical

Subject to modification

ATEX-Option

B1
or
B2

Staub Ex

II 1/2D Ex ta/tb IIIC T80 °C
or
II 1D Ex ta IIIC T80 °C