

Ultrasonic Level Measurement *Alignment Unit FAU 40*

Mounting accessory for ultrasonic sensors with separate drive electronics

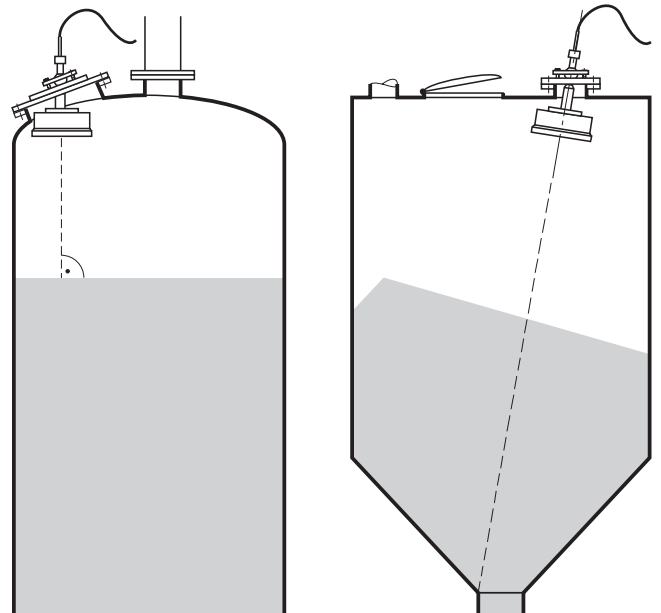


Application

- Mounting a separate sensor without drive electronics on a silo or tank
- Positioning a separate sensor, e.g. exactly perpendicular to the surface of the liquid or at an angle to the output of a bulk solids silo
- Approved for use in combustible dusts ATEX Zone 20

Features and Benefits

- Simple to mount even with slanting mounting pipes
- Ideal reflection with simple orientation
- Maximum use of vessel space
- No interference reflections, e.g. inside the mounting pipe
- Reduction of interference echoes, e.g. from fittings within the silo



Endress + Hauser

The Power of Know How



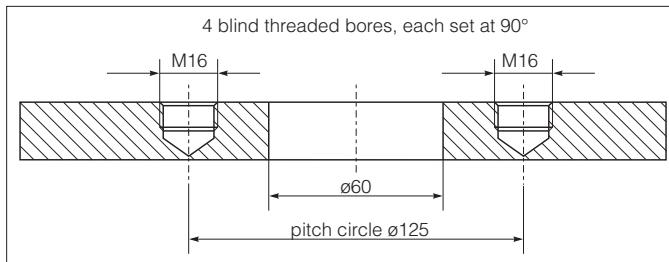
Installation

The universal flange of the FAU 40 alignment unit can be mounted directly onto a DN 50 or 2" counterflange if the installation point in the vessel is easily accessible, e.g. through an inspection shaft.

If the installation point is not easily accessible, then a mounting pipe must be chosen that is wide enough to allow the ultrasonic sensor to pass easily through it. Screw or weld the small flange of the alignment unit to the appropriate intermediate flange.

All dimensions
are in mm
100 mm = 3.94 in
1 in = 25.4 mm

Example for a customer
supplied intermediate
flange, e.g. DN 200 or
DN 250,
PN 16, for mounting the
alignment unit



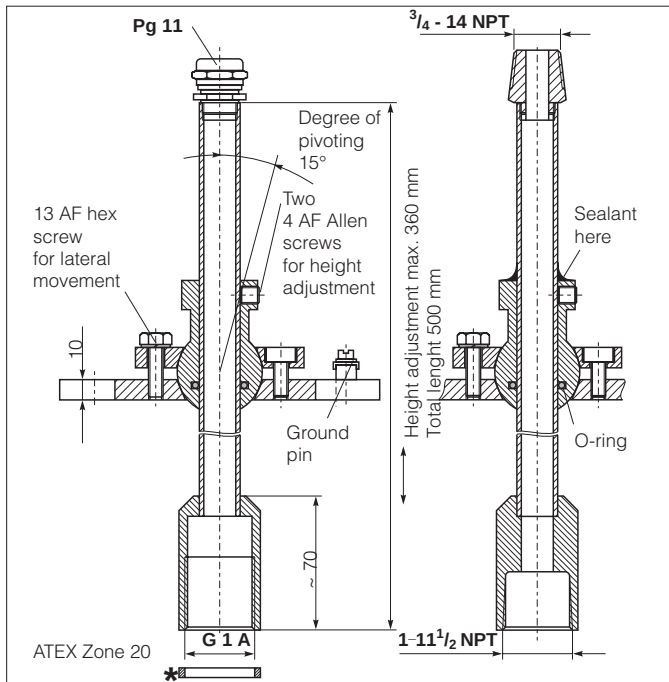
Technical Data

Dimensions

Left:
with G 1 thread
and Pg 11
cable gland

Right:
with 1 NPT thread and
3/4" cable gland
for pipe connection

* For use in combustible
dusts ATEX Zone 20
insert seal which is
supplied with sensor.



Positioning

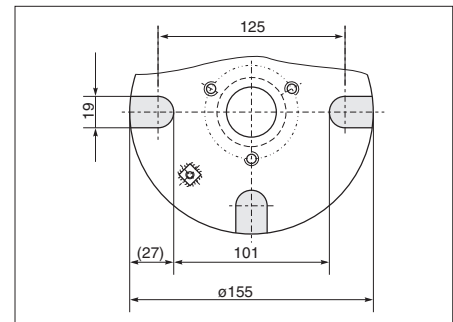
- The sensor can be oriented laterally (pivoted) by simply loosening the 13 AF hexagonal screw on the flange ring.
- In a few cases it might be necessary to adjust the height.
Warning! Only when there is no pressure in the vessel:
Loosen the two AF 4 Allen screws (grub screws) on the pipe.
See fig. below.
- Push the sensor as far down as possible until its lower edge is below the roof of the silo or tank.
- Note that the distance between the maximum level and the lower edge of the sensor must at least be that of the blocking distance.
- Tighten the screws once the sensor has been correctly aligned!
- After each height adjustment we recommend that the area where the pipe goes through the sleeve is packed with sealant (e.g. putty, resin, varnish) to ensure Protection IP 65.

Technical Data

- Flange: 1.4301 stainless steel
- Pipe: galvanized steel
- Cable gland Pg 11: nickel-plated brass with Neoprene CR gasket
- Weight: approx. 2.5 kg
- Protection: IP 65

Universal flange
to fit counterflanges
DN 50, PN 16
ANSI 2", 150 psi,
JIS 10 K 50
or other flanges
(c.f. sizes)

Welded flange without
grey mounting grooves



How to Order

Welding flange version

- FAU 40-1G
with G 1 sensor connection
- FAU 40-1N
with 1 NPT sensor connection

Universal flange version

- FAU 40-2G
with G 1 sensor connection
- FAU 40-2N
with 1 NPT sensor connection

Other versions on request

For more Endress+Hauser product please visit: www.ainstru.com
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