



Technical Information

Alignment Unit FAU40

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

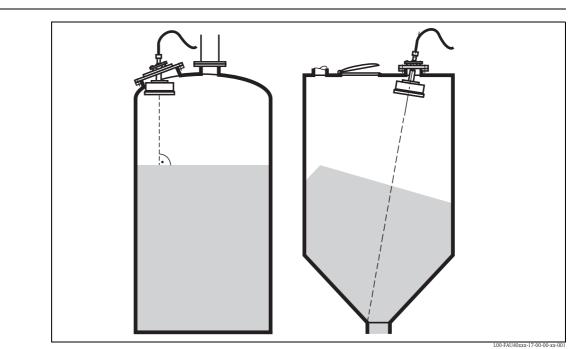
Features and Benefits

- 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



Application

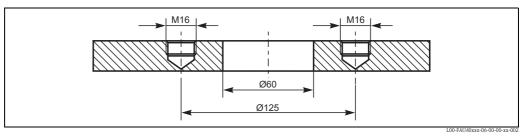




Installation

The universal flange of the FAU40 alignment unit can be mounted directly onto a DN50 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.



Example of a customer supplied intermediate flange, e.g. DN200 or DN250; contains 4 blind threaded bores, each set at 90°

Positioning

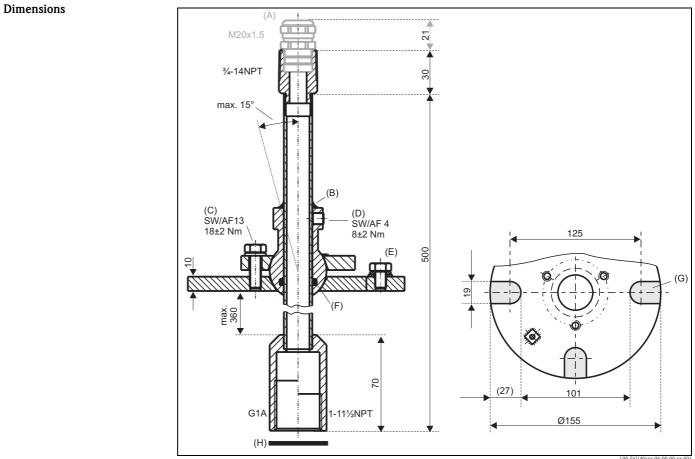
• The sensor can be oriented laterally (pivoted) by simply loosening the 13AF hexagonal screw on the flange ring.

- In a few cases it might be necessary to adjust the height.
 - Caution!

Adjust the sensor only when there is no pressure in the vessel.

Loosen the two AF4 Allen screws (grub screws) on the pipe.

- 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 IP65.



Technical Data

L00-FAU40xxx-06-00-00-xx-00

(A): Cable gland M20x1.5 (present if selected in the product structure); (B): sealant here; (C): screw for lateral movement; (D): two Allen screws for height adjustment; (E): ground pin; (F): O-ring; (G): mounting grooves (present in the UNI flange); (H): seal supplied with the sensor; must be used for applications in ATEX zone 20

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Materials	Flange Pipe Cable gland		304
			galvanized steel
			304 or galvanized steel (s. product structure)
Weight	approx. 2,5 kg		
Ingress protection	IP65		
Process conditions	for unpressurized applications only		
Product structure	010 Process Connection (Flanges)		
		1 V	Nelding flange, 304
		2 U	JNI flange, 2"/DN50/50, 304, max. 1.5 bar abs. / 22psia;
		s	uitable for 2" 150lbs / DN50 PN16 / 10K 50
	020	5	Sensor Connection
		S	5 Thread G1, gland M20, 304
		C	G Thread G1, gland M20, steel zinc coated
		١	Thread NPT1, entry 3/4, steel zinc coated
	FAU40 -		product designation

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