



# NivoRadar<sup>®</sup> 3000

## Radar level transmitter

The multifunctional FMCW radar level transmitter for continuous monitoring of solids and liquids with two-wire technology – total reliability, even within difficult media. Certified for hazardous locations.

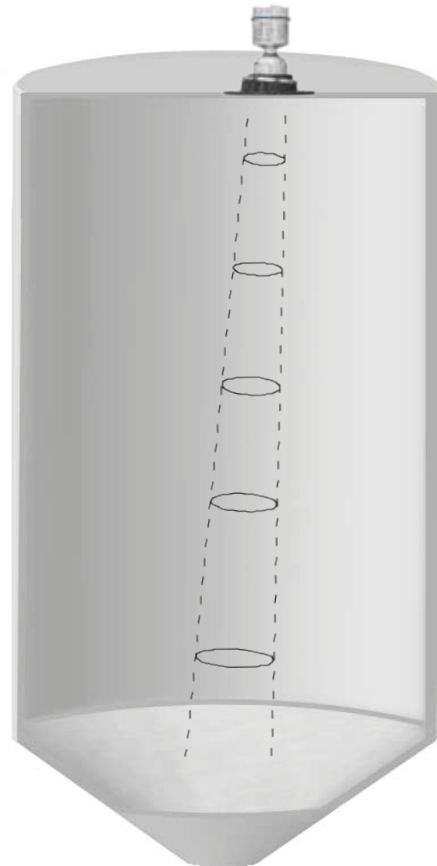


# NivoRadar® 3000



- 78 GHz Technology
- 4° beam angle
- Measuring range up to 100m
- High precision measurement
- Easy to install and setup
- Process temperature up to 200°C
- Lens antenna and mounting flange are flush
- Integrated lens cleaner
- Simple, six-step commissioning

**Application:** The robust stainless steel construction makes the NR 3000 extremely suitable for all kinds of industrial applications. The unit operates at a high frequency of 78 GHz thus achieving a very small beam angle which eliminates any signal interference at the flange but allows optimum reflection of the bulk solids material. The aiming flanges can be adjusted to ensure a perfect positioning of the NR 3000, ie the angle of the beam can be set to a specific point, for example the outlet of the silo. The lens antenna is highly resistant to material deposits and offers a self-clean function for extremely sticky solids using an air flush connection. The plug in display allows programming and diagnostics on-site making the installation and operation of the unit as easy as child's play.



## Non-contact level switch

### Flat flange



### Aiming flange



## Technical Detail

<b>Housing</b>	Stainless steel 1.4404 IP 68 (316L)
<b>Measuring range/ tolerance</b>	40m or 100m ±0.25%
<b>Pressure range</b>	3 bar g (40 psi g) max.
<b>Supply voltage</b>	24 V DC (max. DC 30 V)
<b>Process connection</b>	Flat flange stainless steel 316L 80-150mm (3" - 6"), aiming flange aluminium diecast 80-150mm (3" - 6")
<b>Process temperature range</b>	-40°C up to +200°C
<b>Signal output</b>	4...20mA, 2-conductor
<b>Communication</b>	HART
<b>Sensitivity</b>	From DC value 1.6
<b>Material lens antenna</b>	PEI, PEEK
<b>Frequency</b>	78-79 GHz FMCW