

NivoRadar[®] 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.

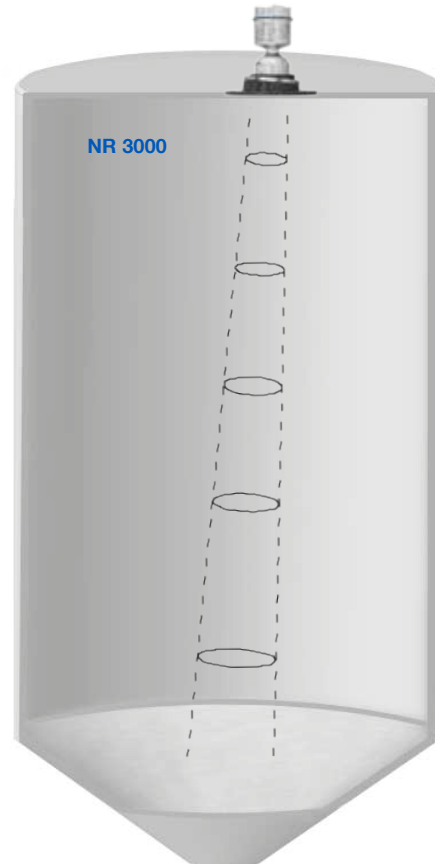


NivoRadar® 3000



- 78GHz 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

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