

FNF



Smart Solids Flow/ No Flow Switch



FNF STANDARD



FNF COMPACT

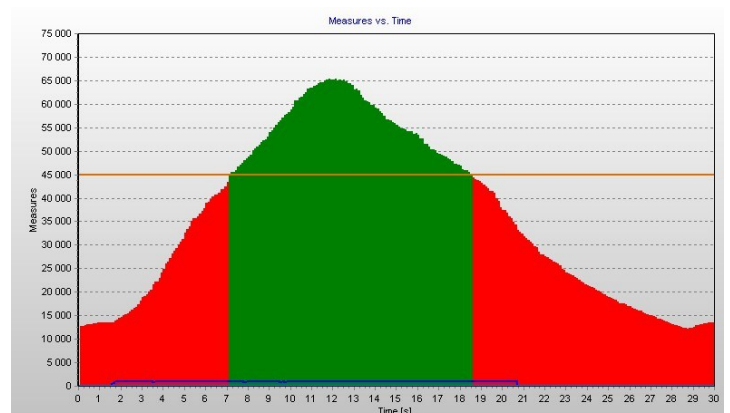
Solids Flow Detection Made Simple

The GTS Flow / No Flow (FNF) Sensor provides reliable, real-time detection of solids flow in metallic pipes or chutes. Using advanced Microwave Doppler Effect technology, the FNF detects material movement accurately, ensuring smooth operation and protecting your process.

- **Easy Installation** – fits any pipe or chute with a welded half-bushing
- **Reliable Operation** – unaffected by dust or harsh environments
- **Flexible Configurations** – alarm on level, band, or hysteresis detection modes
- **User-friendly Software** – configure and calibrate with Flow32

Applications

- **Pneumatic conveying systems**
- **Free-fall chutes**
- **Belt conveyor material detection**
- **Vertical or horizontal pipelines**
- **Process monitoring and safety interlocks**



How it Works

- Sensor generates an electromagnetic field in the pipe, chute, or given area.
- Flowing particles reflect the signal back.
- The sensor interprets the reflected signal to detect flow vs. no flow.
- Configurable thresholds via software optimize detection for your process

Benefits

- No moving parts → **low maintenance**
- Works in harsh industrial environments
- Compact and robust design
- Software calibration ensures **high repeatability**
- Optional high-pressure. High-temperature and high-protection versions

Included in Package

- Flow No Flow Sensor
- Weldable half-bushing
- 5 m M12 cable & Manual
- USB cable for PC connection
- Free Flow32 configuration software

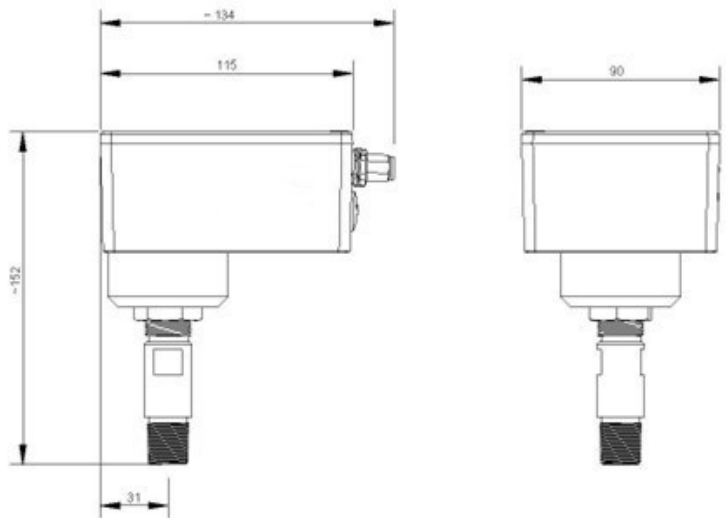


Technical Data

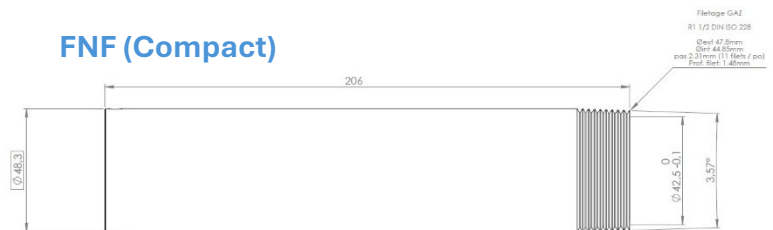
Measurement range	Up to 3 ft (1 m)
Principle	Microwave Doppler
Housing material	Aluminum
Sensor Waveguide	Stainless Steel (1.4571)
Dimensions	L 134 x l 90 x H 152 mm
Mounting	Weldable half-bushing
Ambient temp.	-4° ... 140°F (-20° ... 60°C)
Process temp.	-4° ... 302°F (-20° ... 150°C)
Process pressure	0 ... 1,160 psi (0 ... 80 bar)
Protection class	NEMA 4X (IP 66)
Explosion rating	General Purpose
FNF EX rating	ATEX Zone 20/21 (option)
Power Supply	24 VDC, max 50mA, <2W
Output (switching)	1x Relay Contact
Switching V & mA	30 V AC/DC, max 80mA

Dimensions

FNF (Standard)



FNF (Compact)



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