

## Overview

- Level limit detection in liquid, slurry, foam, interface and solids
- Non-invasive and reliable
- Non-contact
- Wide range of applications
- Very maintenance free
- Wide dynamic range detected
- Standard for control in open areas
- Single process or high temperature
- Single channel or multiple channels
- RF technology with active state
- Flexibility: channels constant or 2
- Simple modification of grade possible in site

- Standard electronic with:
  - 4 channel power supply
  - 4 data state output and Relay output

- Single electronic with:
  - 4 communication by Profibus DP
  - 4 digital input and four channels
  - 4 relay outputs

- Multiple approach available:
  - 4 channel DP, 4 relay output

|          |                                |                          |  |
|----------|--------------------------------|--------------------------|--|
| Approach | RF 4000                        | Zone 0                   | intrinsically safe                             |
|          | RF 4000                        | Zone 0/1                 | Non-hazardous                                  |
|          | RF 4000                        | Zone 0/1/2               | Ex-rated for Profibus DP or intrinsically safe |
|          | RF 4000                        | Normal duty              |  |
|          |                                | 0 - 10m / 1              | intrinsically safe                             |
|          |                                | 0 - 10m / 1              | Non-hazardous                                  |
|          |                                | 0 - 4 x 10m / 1          | Ex-rated for Profibus DP                       |
|          | RF 4000                        | Industry location        |  |
|          |                                | Zone 0                   | intrinsically safe                             |
|          |                                | Zone 0/1                 | Non-hazardous                                  |
|          | Zone 0/1/2                     | Ex-rated for Profibus DP |  |
| Grade    | Galvanic DP1, DP2, DP3 and DP4 |                          |  |
| RF 4000  | Ex-rated for Profibus DP       |                          |  |

|                     | Electronic module Standard                  | Electronic module Digital   |
|---------------------|---|---|
| Supply voltage      | 10 - 24V DC (24.5 - 28.5V)                  | 10 - 24V DC (11 to 30 volts)  |
| Signal output       | Relay output                                | Profibus DP   |
| Signal output delay | Settable delay within 20-100-1000ms, 0-10ms | Settable delay within 20-100-1000ms, 0-10ms   |
| Relays              | High or Low                                 | High or Low   |
| User interface      | Pushbutton, switches, LED indicator         | LED panel user interface or Profibus DP   |
| Regenerative        | -   | Over and under range<br>Excessive temperature<br>Excessive shock<br>Excessive speed<br>Excessive dynamic self-check |

|                            |  |
|----------------------------|--|
| Material                   | Stainless, powder coated   |
| Explosion protection       | Type 0, 1, 2, 3 or 4   |
| Temperature extended shaft | Option for RF 4000, standard for RF 4000<br>Maximal: 1000-1200°C   |
| Ambient temperature        | 40 - 100°C (40 - 100°F)<br>100-150°C (212-312°F) with special cable, 10-150<br>40 - 100°C (40 - 100°F) with Profibus DP or Ex-rated for Profibus DP<br>40 - 100°C (40 - 100°F) with intrinsically safe |

\*\*For ambient with plug the type of protection can be lower than zone 0/1