RFnivo®

Level limit switch
Series RF 3000
Product configuration - Technical notes

UWT
LEVEL. UP TO THE MAX.

Overview

- Level limit detection in bulk goods/ solids
- Compact unit
- Wide range of applications
- No maintenance
- Full, demand, empty detector
- Aluminium or plastics housing

- RF technology
- Active shield technology
- Self diagnostics
- Auto calibration

- ATEX, UKEX IEC-Ex, FM, FMc, TR-CU, KC, CCC Gas Ex and Dust Ex approvals
- FDA and 1935/2004/EC Food grade materials

Approvals	CE/ UKCA/ TR-CU	
	ATEX/ UKEX/ IEC-Ex/ TR-CU	
	Zone 20/21	Dust Ignition Proof
	Zone 1	Flameproof/ Increased Safety
	KC/ CCC	
	Zone 20/21	Dust Ignition Proof
	Zone 1	Flameproof
	FM/ FMc	
	General purp.	
	FM	
	Cl. II, III Div. 1	Dust Ignition Proof
	Cl. I Div. 1 Cl. I Zone 1	Explosionproof

Electronics	Supply voltage/ Signal output	21 .. 230 V AC/ DC ±10% Relais DPDT
	Technology	RF with active shield
	Signal output delay	0.5 .. 60 sec
	Measuring range/ max.s ensitivity	3 .. 100 pF/ 0.5 pF 3 .. 400 pF/ 2 pF
	Preset sensitivty	2 pF default, other sensitivity optional
	Calibration	Auto power up calibration at first time operation Auto recalibration with uncovered probe Push button calibration Manual calibration
	Display	4 digit LCD Display of actual measured capacitance, signal output state and self diagnostics
	Self diagnostics	Auto or manual function test Over and Under Range Actual calibrated switchpoint capacitance Min. and max. electronics temperature

Housing

Standard Aluminium	d (flameproof) Aluminium	de (flameproof/ increased safety) Aluminium

Cable entries (by default)
Depending on model selected, the following cable entries are supported (options see pos.33):

Version:	Cable entries:
Flameproof (pos.2 T,D,L, 5)	M20 x 1.5 (1x open conduit + 1x blind plug)
FM/FMc (pos.2 M,N,U)	NPT ½" tapered ANSI B1.20.1 (1x open conduit + 1x blind plug)
All other versions	M20 x 1.5 (1x screwed cable gland + 1x blind plug)