

Technical Data

ACC0BD / ACC1BD



Article	ACC0BD Rope probe for suspension box 10-30V _{DC}	ACC1BD Combi rod probe for suspension box 10-30V _{DC}
Article number	3010052 (ATEX) 3010053 (zonefree)	3010056 (ATEX) 3010057 (zonefree)
application purpose	Level measurement, configurable as high or low level sensor	
Functional data		
Principle of operation	capacitive	
Rope / rod length	1 – 16m	0.5 – 4m
Sensitivity	> permittivity value 2	
Overflow height for triggering	0.1m if rope is ≤1m 0.5m if rope is ≤6m 0.8m if rope is >6m	0.1m if rod is ≤1m 0.5m if rod is >1m
Process pressure	0.8 – 1.1bar	
Detection	Adjustable full border, adjustable empty border, autodetection without adjustment (can be disabled)	
Features	<ul style="list-style-type: none"> - temperature compensation - configurable switching delay on output - configurable sensitivity with auto-adjustment - output level can be inverted - shortcut detection - error monitoring via output toggling - PC software for service technicians - log functionality over UART 	
Electrical data		
Supply voltage	10V _{DC} – 30V _{DC}	
Sensor output	adjustable, Push-Pull, PNP, NPN	
Switching current output	max. 60mA	
max. power consumption	2VA	
Connection data for intrinsically safe systems	Ui = xx V Ci = xx uF Li = xx nH Pi = xx VA	
Temperature range		
Ambient	-20°C to +60°C	
Process	-40°C to +180°C	
storage	-20°C to +40°C	
Safety relevant data		
Protection class	Protection class I	
IP protection class	IP67	
ATEX certification	Ex II 1D Ex ta IIIC T85°C Da Ex II 1/2D Ex ta/tb IIIC T85°C Da/Db	

Dimensioning

