DISIBEINT



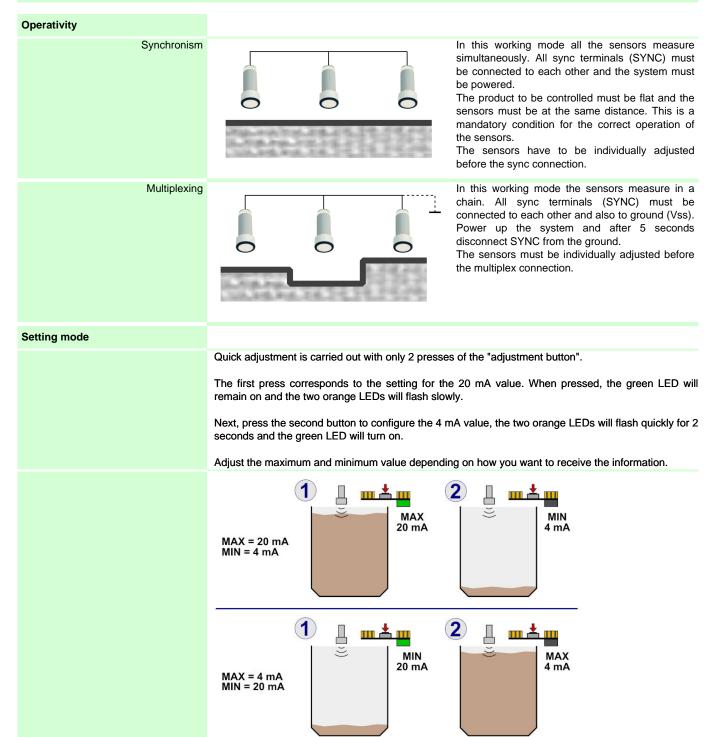


Operating principle				
	the echo produced to return, converting the result into an electrical signal.			
Application	They can detect objects of different shapes, colors, materials and colors, and can be liquid, solid or			
	powdery as long as they are sound deflectors. The presence of air is essential to propagate the sound so they cannot work in vacuum installations.			
Detection properties				
Detection range	350 6000 mm			
Beam angle				
Thermal shift				
Sensor resolution	0,1% from top os scale value			
Repeatability				
Hysteresis	1%			
Linearity error	1%			
Analogical output				
Type	4-20 mA			
Function				
Switching frequency				
Sensitivity adjustment	500 ms			
Digital output				
Туре	PNP + IO-Link			
Function	Positive ramp			
Switching frequency	1 Hz			
Sensitivity adjustment	1s			
Electrical data				
Туре	Connector M12x1, 5 pins			
Power supply	10 30 VDC			
Consumption	25 mA			
Leakage current	10 μA @ 30 VDC			
Tension fall	2,2 V max. (IL=100 mA)			
Ripple	5%			
Delay on connection	<= 600 ms			
Status Indication	Green Led: ECHO · Yellow Led: OUTPUT			
Mechanical data				
Body material	PBT. Parylene coating on the sensor end.			
Operating temperature	-20 +70 °C			
Tightening torque				
Weight	170 g			
Protection				
Short circuit	Yes (autoreset)			
Tension inverse	Yes			
Induction	Yes			



Certificates					
Generic	CE cULus				
Electromagnetic compatibility	EMC directive according to EN60947-5-2				
Shocks and vibrations	IEC EN60947-5-2 / 7.4				
Protection degree	IP67				
Dimensions					
Dimensions					
Installation tips					
Installation	Sensor installation must be done using the supplied plastic nuts and flexible gaskets. In case of installation conditions on a metallic support, whether threaded or not, or using metallic nuts, both the support and the nuts must be grounded. In addition, the active part of the sensor must be away from any metallic presence at least 5 mm.				
Electrical connection	Make sure that the supply voltage and its ripple correspond to the specified values. If the noise produced by power lines exceeds the values established by the EMC directive (immunity to electromagnetic interference), separate the sensor cables from the high voltage lines and insert it into a metallic earth ground. It is advisable to connect the sensor directly to the power supply and not to other devices. To extend the supply and output cables, it is necessary to use a cable with 1 mm ² conductors with a maximum extension of 100 m. In industrial environments we recommend using shielded cables to prevent possible disturbances caused by induced electromagnetic fields.				
Temperature	Do not expose the sensor head to liquids above 50°C, vapors, acids or solvents. In case of condensation inside the tank, wipe the active end of the sensor with a damp cloth and dry it. If the sensor is measuring through a variable temperature space, the compensation of the temperature will be less effective. The increase in temperature since start-up influences the reading of the measurement, which will stabilize after about 20 minutes.				
Memory	The sensor maintains the last adjustment that has been made. Therefore, when starting the sensor after remaining disconnected, the last values established in points P1 and P2 will be maintained.				
Response curve	(u) 1000 1				
Connection	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 8 \\ 4 \\ 3 \\ 8 \\ 8 \\ 4 \\ 3 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$				
Command and signaling	Image: Difference of the sector of the se				

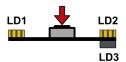
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Operation mode setting

Adjustment lock



To modify the operating mode, keep it pressed for 8 seconds, the LD1 and LD2 leds light up intermittently @10Hz as confirmation that the setting mode has been entered.

	LD3		
	P1(20mA) > P2(4mA)	P1(20mA) < P2 (4mA)	P1(20mA) = P2(4mA)
	PIN 4 DIGITAL	PIN 4 DIGITAL LED IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	FIN 4 DIGITAL
LD1, LD2 ON IN THE TWO POINT MODE	PIN 4 DIGITAL LED LED T T T T T T T T T T T T T T T T T T T	PIN 4 DIGITAL LED T T T T T T T T T T T T T T T T T T T	PIN 4 DIGITAL LED TIMM
LD3 ON BGS MODE	PIN 4 DIGITAL Hyst LED 1		
LDI ON SINGLE POINT MODE	PRI 4 DIGITAL LED 1 2 mm	FRI 4 DIGITAL LED T T T T T T T T	PIN 4 DIGITAL LED TIM