GENERAL CHARACTERISTICS

 $(\in$

Measure of the level and distance with ultrasonic technology, based on the principle of proportionality between the propagation time of the signal and the distance from the obstacle.

No contact between the sensor and the monitored product, both liquid and solid or granular.

The analog signal is proportional to the volume of the product. The absence of moving parts offers a system that does not require particular maintenance.

- Measuring ranges from 30 ... 350 mm to 600 ... 8000 mm
- Resolution 0,18 mm
- Repeatability ± 0,15%
- Programming via 2 push-buttons and visualization on 3 digit LED display.
- Additional Teach-in function.
- Measuring units programmable in mm, cm, or %
- Signal indication with 2 three-color LED.
- PNP output with short-circuit protection programmable NO or NC.
- 0 ÷ 10 V or 4-20mA analog output.
- Operating temperature range -25/+70°C.
- Degree of protection IP67



DATI TECNICI Tab.1

		Type - Code						
Description		VLS-01	VLS-02	VLS-03	VLS-04	VLS-05		
Minimum measuring value		30	60	200	350	600		
Optimal measuring value		250	350	1300	3400	6000		
Maximum measuring value	mm.	350	600	2000	5000	8000		
Resolution		0,18	0,18	0,18	0,18	0,18		
Hysteresis – factory set		2,5	5	20	50	100		
Accuracy – thermal drift	%	0,17/K	0,17/K	0,17/K	0,17/K	0,17/K		
Repeatability	%	± 0,15	± 0,15	± 0,15	± 0,15	± 0,15		
Frequency	kHz	320	400	200	120	80		
Sampling frequency	Hz	11	8	6	3	2		
Current consumption – without load	mA	≤ 80	≤ 80	≤ 80	≤ 80	≤ 80		
Response time	mo	50	70	110	180	240		
Stand-by time	ms	< 300	< 300	< 300	< 300	< 300		

^(*) programmable from 1 digit to maximum measuring value

	Code		Data			
Power supply	-	9 ÷ 30 Vdc ± 10%				
	04	1 PNP	max. 200 mA			
Output	44	2 PNP	max. 2x200 mA			
Output	54	1 PNP	4 ÷ 20 mA	0 ÷ 10 VDC		
	50	-	4 ÷ 20 mA	0 ÷ 10 VDC		
Housing motorials	00	M 30x1,5 -	Nickel plated brass	- Plastic		
Housing – materials	VA	M 30x1,5 -	Stainless steel 1.4571	- Plastic		
Electrical connection	-		M 12 x 1 - 5 poles			
Degree of protection	IP67		IP67			

We reserve the right to change the data without notice



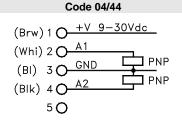


LINEAR VLS

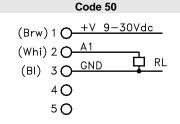
Ultrasonic continuous level sensor

WIRING Tab.2

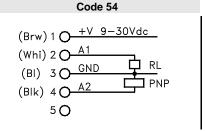




Transistor output

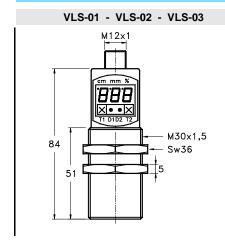


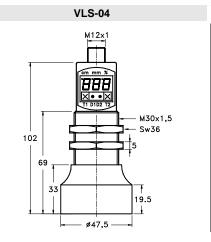
Analog output

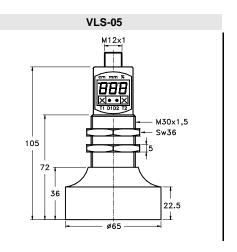


Transistor/analog output

DIMENSIONS mm.



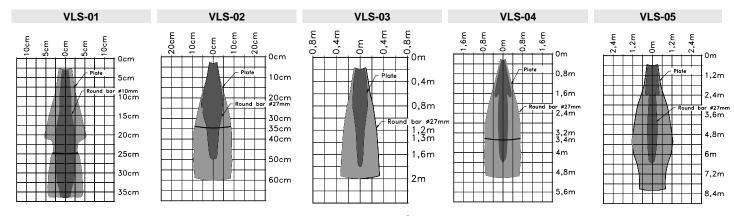




FIELD OF DETECTION

Detection Range: The dark area is determined with a bar of round section (diameter of 10 and 27 mm).

The lighter area is determined by a foil of 500×500 mm inserted laterally in the beam of the emitted signal. The indicated detection area is defined as the area of operation of the sensor, it is not possible to estimate the accuracy of the system outside of this area.



NOM	ENCL	ATURI	E								
VI	LS		05		54	00	IP67				
(•								Type		
			•					Tab.1	1 Measuring range		
					•			Tab.1-2	Output and wiring		
						•		Tab.1	Body and	Body and materials	
							•	Tab.1	Degree of	f protection	
SK	M5	Е	02	00	Cable 2	m. with M12x	1 plug – Nicke	l plated bra	ass	Accessory ontion	
SK	M5	Е	05	00	Cable 5m. with M12x1 plug - Nickel plated brass			ass	Accessory - option		
SK	M5	Е	02	VA	Cable 2	Cable 2m. with M12x1 plug - Stainless steel					
SK	M5	Е	05			able 5m. with M12x1 plug - Stainless steel				Accessory - option	