

Overview



SITRANS LVL200 is a standard vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 applications.

Benefits

- Proven vibrating level switch technology for liquids
- Compact insertion length of 40 mm (1.57 inch) for confined space applications
- Fault monitoring for corrosion, loss of vibration or line break to the piezo drive
- Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511
- Hygienic process connections
- Suitable for API 2350

Application

SITRANS LVL200 is a level switch designed for industrial use in all areas of process technology and can be used with liquids and slurries. With a tuning fork insertion length of only 40 mm (1.57 inch), SITRANS LVL200 can be mounted in small pipes and applications with confined space. The LVL200 can be used to measure products with a minimum density of $> 0.5 \text{ g/cm}^3$ (0.018 lb/in^3). The LVL200 can be used in difficult conditions including turbulence, air bubbles, foam generation, buildup, or external vibration.

SITRANS LVL200 continuously monitors faults via frequency evaluation, providing early detection of strong corrosion or damage on the tuning fork, loss of vibration, or a line break to the piezo drive.

The tuning fork is piezoelectrically energized and vibrates at its mechanical resonance frequency of approximately 1 200 Hz. The vibration frequency changes when the tuning fork is covered by the medium. This change is detected by the integrated oscillator and converted into a switching command. The integrated electronics evaluate the level signal and output a switching signal, directly operating connected devices.

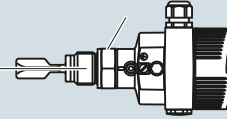
- Key Applications: for use in liquids and slurries, for level measurement, overflow, and dry run protection

Configuration

Horizontal mounting

Switching point (recommended mounting position, particularly for adhesive applications)

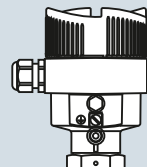
Marked with screwed version on top, with flange versions directed to the flange holes



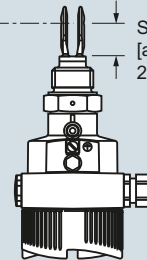
Vertical mounting

Switching point with lower density [approx. 13 (0.51)]

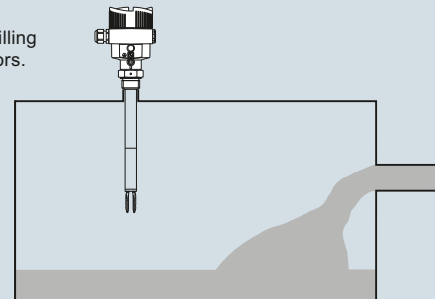
Switching point with higher density [approx. 27 (1.06)]



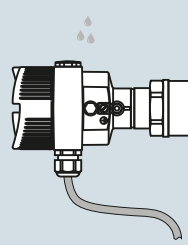
Switching point with higher density



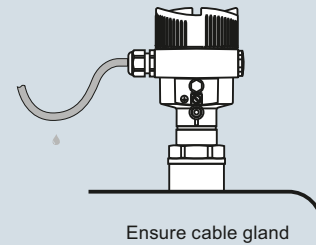
Mount away from filling openings or agitators.



Moisture protection



NOTE:
Welded socket for flush mount optional



Ensure cable gland faces downward to avoid water ingress.

SITRANS LVL200 installation, dimensions in mm (inch)

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

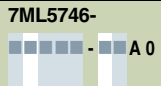

Technical specifications

Mode of operation		Degree of protection	Type 4X/NEMA 4X/IP66/IP67
Measuring principle	Vibrating point level switch	Conduit entry	<ul style="list-style-type: none"> 1 x M20 x 1.5 (cable: \varnothing 5 ... 9 mm), 1 x blind stopper M20 x 1.5; attached 1 x M20 x 1.5 cable entry 1 x 1/2" NPT cable entry, 1 x blind stopper 1/2" NPT, 1 x 1/2" NPT cable entry 1 x M12 x 1; 1 x blind stopper M20 x 1.5
Input		Weight	<ul style="list-style-type: none"> Device weight (dependent on process fitting) Tube extension (extended version)
Measured variable	High and low and demand (via mode switch)	Approx. 0.8 ... 4 kg (0.18 ... 8.82 lb)	Approx. 920 g/m (10 oz/ft)
Output		Power supply	
Output options	<ul style="list-style-type: none"> Relay output (DPDT), 2 floating SPDTs Contactless electronic switch 2-wire Namur signal output Transistor (NPN/PNP) 10 ... 55 V DC 	Supply voltage	<ul style="list-style-type: none"> Relay DPDT Contactless 2-wire NAMUR
Measuring accuracy		Operating voltage (characteristics according to standard) for connection to an amplifier according to NAMUR	<ul style="list-style-type: none"> 20 ... 253 V AC, 50/60 Hz, 20 ... 72 V DC [at U > 60 V DC] 20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
Repeatability	0.1 mm (0.004 inch)	Power consumption	<ul style="list-style-type: none"> Relay DPDT Contactless
Hysteresis	Approx. 2 mm (0.08 inch) with vertical installation	• 2-wire NAMUR	<ul style="list-style-type: none"> IEC 60947-5-6, approx. 8.2 V Off-load voltage U₀ approx. 8.2 V Short-circuit current I₀ approx. 8.2 mA
Switching delay	Approx. 500 ms (on/off)	• 2-wire Namur	<ul style="list-style-type: none"> 1 ... 8 VA (AC), approx. 1.3 W (DC) 1 ... 8 VA (AC), approx. 1.3 W (DC)
Frequency	Approx. 1 200 Hz	• Transistor (NPN/PNP) 10 ... 55 V DC	<ul style="list-style-type: none"> Domestic current requirement approx. 3 mA (via load circuit)
Rated operating conditions		Output	<ul style="list-style-type: none"> Floating transistor output, permanently shortcircuit-proof
Installation conditions	Indoor/outdoor	Load current	<ul style="list-style-type: none"> Min. 10 mA Max. 400 mA [with I > 300 mA the ambient temperature can be max. 60 °C (140 °F)] Max. 4 A up to 40 ms (not WHG specified)
• Location		Current consumption	<ul style="list-style-type: none"> Falling characteristics \geq 2.6 mA uncovered/\leq 0.6 mA covered \leq 0.6 mA uncovered/\geq 2.6 mA covered Failure message \leq 0.6 mA
Ambient conditions		Switching voltage	<ul style="list-style-type: none"> < 1 V
• Ambient temperature	-40 ... +70 °C (-40 ... +158 °F)	Blocking current	<ul style="list-style-type: none"> < 10 μA
• Installation category	III	Certificates and approvals	<ul style="list-style-type: none"> CE, CSA Overfill Protection WHG and VLAREM II FM (Non-Incendive) Class I, Div. 2, Groups A, B, C, D FM (Explosion-Proof) Class I, Div. 1, Groups A, B, C, D; (Dust Ignition-Proof) Class II, III, Div. 1, Groups E, F, G1 IECEx d IIC T6 ... T2 Ga/Gb EHEDG ATEX II 1/2G, 2G EEx d IIC T6 ATEX II 1G, 1/2G, 2G EEx ia IIC T6 Shipping approvals BR-Ex d IIC T6 ... T2 FDA, 3A, Ehedge SIL/IEC61508 Declaration of Conformity [SIL-2 (min/max detection)]
• Pollution degree	2		
Medium conditions			
• Temperature			
- LVL200S Standard	-50 ... +150 °C (-58 ... +302 °F)		
- LVL200S High temperature option	-50 ... +250 °C (-58 ... +482 °F)		
- LVL200E Standard: with 316L/Hastelloy	-50 ... +150 °C (-58 ... +302 °F)		
- LVL200E High temperature option: with 316L/Hastelloy	-50 ... +250 °C (-58 ... +482 °F)		
Pressure (vessel)	-1 ... 64 bar g (-14.5 ... 928 psi g)		
Density	0.7 ... 2.5 g/cm ³ (0.025 ... 0.09 lb/in ³); 0.5 ... 2.5 g/cm ³ (0.018 ... 0.09 lb/in ³) by switching over		
Design			
Material	Aluminum die-cast AISi10Mg, powder-coated, basis: Polyester		
• Enclosure	Stainless steel housing, electro-polished 316L		
• Tuning fork	316L (1.4404 or 1.4435), Hastelloy		
• Extension tube [\varnothing 21.3 mm (0.839 inch)]	316L (1.4404 or 1.4435), Hastelloy		
• Process connection: threaded	316L (1.4404 or 1.4435), Hastelloy		
• Process connection: flange	316L (1.4404 or 1.4435), 316L with Hastelloy, ECTFE, or PFA coating		
• Process seal	Klingsil C-4400		
Process connection			
• Pipe thread, cylindrical (ISO 228 T1)	G 3/4" A, G 1" A		
• Pipe thread, tapered	3/4" NPT, 1" NPT, 1 1/2" NPT		
• Flanges	DIN from DN25, ANSI from 1"		
• Hygienic fittings	Bolting DN 40 PN 40, 1, 1 1/2, 2, 2 1/2" Tri-Clamp PN 10, conus DN 25 PN 40, Tuchenhagen Varivent DN 50 PN 10, SMS		

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Standard	7ML5746-	SITRANS LVL200, Standard	7ML5746-
Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	 A 0	Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	 A 0
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			
Electronics			
Contactless electronic switch 20 ... 250 V AC/DC ¹¹⁾	1	Thread 1½" NPT, PN 64/316L Ra < 0.8 µm	A 26
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC	2	Thread 1½" NPT, PN 64/Alloy C22 (2.4602)	A 27
NAMUR signal ¹¹⁾	4	Thread G2" A, PN 64/316L	A 28
Transistor (NPN/PNP) 10 ... 55 V DC	5	Thread M27 x 1.5, PN 64/316L	A 30
Two-wire (8/16 mA) 12 ... 36 V DC ¹⁴⁾	6	Conus DN 25, PN 40/316L Ra < 0.3 µm	A 31
		Conus DN 25, PN 40/316L Ra < 0.8 µm	A 32
		Conus DN 25, PN 40/ECTFE (ZB3033) ⁴⁾	A 33
		Conus M52, PN 40/316L	A 34
		Conus M52, PN 40/316L Ra < 0.3 µm	A 35
		Conus M52, PN 40/316L Ra < 0.8 µm	A 36
		Tri-Clamp 1", PN 16/316L Ra < 0.3 µm	A 37
		Tri-Clamp 1", PN 16/Alloy C22 (2.4602)	A 38
		Tri-Clamp 1", PN 16/316L Ra < 0.8 µm	A 40
		Tri-Clamp 1½", PN 16/316L Ra < 0.3 µm	A 41
		Tri-Clamp 1½", PN 16/Alloy C22 (2.4602)	A 42
		Tri-Clamp 1½", PN 16/316L Ra < 0.8 µm	A 43
		Tri-Clamp 2", PN 16/316L Ra < 0.3 µm	A 44
		Tri-Clamp 2", PN 16/Alloy C22 (2.4602)	A 45
		Tri-Clamp 2", PN 16/316L Ra < 0.8 µm	A 46
		Tri-Clamp 2½", PN 10/316L Ra < 0.3 µm	A 47
		Tri-Clamp 2½", PN 10/316L Ra < 0.8 µm	A 48
		Tri-Clamp 3", PN 10/316L Ra < 0.3 µm	A 50
		Tri-Clamp 3", PN 10/316L Ra < 0.8 µm	A 51
		Bolting DN 32, PN 40 DIN11851/316L Ra < 0.3 µm	A 52
		Bolting DN 32, PN 40 DIN11851/316L Ra < 0.8 µm	A 53
		Bolting DN 25, PN 40 DIN11851/316L Ra < 0.3 µm	A 54
		Bolting DN 25, PN 40 DIN11851/316L Ra < 0.8 µm	A 55
		Bolting DN 40, PN 40 DIN11851/316L Ra < 0.3 µm	A 56
		Bolting DN 40, PN 40 DIN11851/316L Ra < 0.8 µm	A 57
		Bolting DN 40, PN 40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 58
		Bolting DN 50, PN 25 DIN11851/316L Ra < 0.3 µm	A 60
		Bolting DN 50, PN 25 DIN11851/316L Ra < 0.8 µm	A 61
		Bolting DN 50, PN 25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 62
		Hygienic w. compr. nut F40, PN 25/316L	A 63
		Hygienic w. compr. nut F40, PN 25/316L Ra < 0.3 µm	A 64
		Hygienic w. compr. nut F40, PN 25/316L Ra < 0.8 µm	A 65
		Varivent N50-40/316L Ra < 0.3 µm	A 66
		Varivent N50-40/316L Ra < 0.8 µm	A 67
		Varivent N125/100/316L Ra < 0.8 µm	A 68
		DRD flange, PN 40/316L ZB3007	A 70
		SMS DN 38/316L Ra < 0.8 µm ⁴⁾	A 71
		SMS DN 51, PN 6/316L Ra < 0.8 µm ⁴⁾	A 72
		Swagelok VCR screwing ZG2579, PN 64/316L	A 73
		Neumo biocontrol size 25, PN 16/316L Ra < 0.8 µm	A 74
		Neumo biocontrol size 50, PN 16/316L Ra < 0.8 µm ⁴⁾	A 75
		Neumo biocontrol size 65, PN 16/316L Ra < 0.8 µm	A 76
		Neumo biocontrol size 80, PN 16/316L Ra < 0.8 µm	A 77
		SÜDMO DN 50, PN 10/316L Ra < 0.8 µm	A 78
		Small flange DN 25, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 80
		Small flange DN 40, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 81
		Ingold connection, PN16 / 316L Ra < 0.8 µm (acc. to MB2523)	A 82
		Ingold connection, PN 16/Alloy C22 (2.4602) Ra < 0.8 µm (acc. to MB6017)	A 83
Approvals			
Without approvals ¹²⁾	A		
Overfill protection (WHG)	B		
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG ⁸⁾	C		
ATEX II 1/2G, 2G Ex d IIC T6 + WHG ⁵⁾	D		
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approvals ⁵⁾	E		
ATEX II 1/2G, 2G Ex d IIC T6 + shipping approvals ⁵⁾	F		
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + ATEX II 1/2 D IP6X T ⁸⁾⁹⁾	G		
IECEX Ex ia IIC T6 ⁸⁾	H		
Shipping approvals	K		
ATEX II 3G Ex nA II T5...T1 X	L		
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾⁸⁾	N		
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ²⁾⁵⁾¹³⁾	P		
FM (NI) Class I, Div. 2, Groups A, B, C, D ²⁾	Q		
IECEX d IIC T6 ... T2 Ga/Gb ⁵⁾	R		
CSA (XP) Class I, II, III Div. 1, Groups A, B, C, D, E, F, G ⁵⁾	S		
CSA(NI) Class I, II, III, Div. 2, Groups A, B, C, D, E, F, G	T		
BR-Ex d IIC T6 ... T2 ⁵⁾	U		
CSA (IS) Class I, II, III Div. 1, Groups A, B, C, D, E, F, G ⁸⁾	V		
Process connection			
Thread G¾" A, PN 64/316L	A 00		
Thread G¾" A, PN 64/316L Ra < 0.8 µm	A 01		
Thread ¾" NPT, PN 64/316L	A 02		
Thread ¾" NPT, PN 64/316L Ra < 0.8 µm	A 03		
Thread ¾" NPT, PN 64/Alloy 400 (2.4360)	A 04		
Thread G¾" A, PN 64/Alloy C22 (2.4602)	A 05		
Thread ¾" NPT, PN 64/Alloy C22 (2.4602)	A 06		
Thread G1" A, PN 64/316L	A 07		
Thread G1" A, PN 64/316L ECTFE coated MB1982 ⁴⁾	A 08		
Thread G1" A, PN 64/ 316L PFA coated ⁴⁾	A 10		
Thread G1" A, PN 64/ Alloy 400 (2.4360)	A 11		
Thread G1" A, PN 64/ 316L Ra < 0.8 µm	A 12		
Thread 1" NPT, PN 64/ 316L	A 13		
Thread 1" NPT, PN 64/ 316L ECTFE coated MB1982 ⁴⁾	A 14		
Thread 1" NPT, PN 64 / 316L PFA-coated ⁴⁾	A 15		
Thread 1" NPT, PN 64 / Alloy 400 (2.4360)	A 16		
Thread 1" NPT, PN 64 / 316L Ra < 0.8 µm	A 17		
Thread G1" A, PN 64 / Alloy C22 (2.4602)	A 18		
Thread G1" A, PN 64/Alloy C22 (2.4602) Ra < 0.3 µm	A 20		
Thread G1½" A, PN 64/316L	A 21		
Thread G1½" A, PN 64/316L Ra < 0.8 µm	A 22		
Thread G1½" A, PN 64/Alloy C22 (2.4602)	A 23		
Thread 1" NPT, PN 64/Alloy C22 (2.4602)	A 24		
Thread 1½" NPT, PN 64/316L	A 25		

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Standard

Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.

7ML5746-

- A 0

Terminal DN 33.7 PN 40 DIN11864-3-A-/316L BN2 Ra < 0.8 µm ⁴⁾	A 8 4
Hygienic fl. DN 50 PN 16 DIN11864-2-A-/316L Ra < 0.8 µm	A 8 5
Flange DN 25, PN 6 Form C, DIN 2501/316L	A 8 6
Flange DN 25, PN 6 Form C, DIN 2501/PFA ⁴⁾	A 8 7
Flange DN 25, PN 40 Form C, DIN 2501/316L	A 8 8
Flange DN 25, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 0 0
Flange DN 25, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 0 1
Flange DN 25, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 0 2
Flange DN 25, PN 40 Form C, DIN 2501/Enamelled ³⁾	B 0 3
Flange DN 25, PN 40 Form D, DIN 2501/316L	B 0 4
Flange DN 25, PN 40 Form F, DIN 2501/316L	B 0 5
Flange DN 25, PN 40 Form N, DIN 2501/316L	B 0 6
Flange DN 25, PN 40 Form N, DIN 2501/ Alloy C22 (2.4602)	B 0 7
Flange DN 25, PN 40 Form N, DIN 2501/ Alloy 400 (2.4360) solid	B 0 8
Flange DN 25, PN 40 V13, DIN 2501/316L	B 1 0
Flange DN 32, PN 40 Form C, DIN 2501/316L	B 1 1
Flange DN 32, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 2
Flange DN 40, PN 6 Form C, DIN 2501/316L	B 1 3
Flange DN 40, PN 6 Form C, DIN 2501/ECTFE ⁴⁾	B 1 4
Flange DN 40, PN 40 Form C, DIN 2501/316L	B 1 5
Flange DN 40, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 1 6
Flange DN 40, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 7
Flange DN 40, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 1 8
Flange DN 40, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 2 0
Flange DN 40, PN 40 Form F, DIN 2501/316L	B 2 1
Flange DN 40, PN 40 Form N, DIN 2501/316L	B 2 2
Flange DN 40, PN 40 Form E, DIN 2501/316L	B 2 3
Flange DN 40, PN 40 V13, DIN 2501/316L	B 2 4
Flange DN 50, PN 40 Form C, DIN 2501/316L	B 2 5
Flange DN 50, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 2 6
Flange DN 50, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 2 7
Flange DN 50, PN 40 Form C, DIN 2501/ ECTFE (ZB3108) ⁴⁾	B 2 8
Flange DN 50, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 3 0
Flange DN 50, PN 40 Form D, DIN 2501/316L	B 3 1
Flange DN 50, PN 40 Form D, DIN 2501/ Alloy C22 (2.4602)	B 3 2
Flange DN 50, PN 40 Form F, DIN 2501/316L	B 3 3
Flange DN 50, PN 40 Form N, DIN 2501/316L	B 3 4
Flange DN 50, PN 40 Form N, DIN 2501/ Alloy C22 (2.4602)	B 3 5
Flange DN 50, PN 40 Form E, DIN 2501/316L	B 3 6
Flange DN 50, PN 40 V13, DIN 2501/316L	B 3 7
Flange DN 50, PN 40 R13, DIN 2501/316L	B 3 8
Flange DN 50, PN 64 Form F, DIN 2501/316L	B 4 0
Flange DN 50, PN 64 Form N, DIN 2501/ Alloy C22 (2.4602)	B 4 1
Flange DN 50, PN 64 Form C, DIN 2501/316L	B 4 2
Flange DN 50, PN 64 Form L, DIN 2501/316L	B 4 3
Flange DN 50, PN 100 Form E, DIN 2501/316L	B 4 4
Flange DN 50, PN 100 Form L, DIN 2501/316L	B 4 5
Flange DN 65, PN 40 Form C, DIN 2501/316L	B 4 6
Flange DN 65, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 4 7

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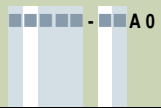
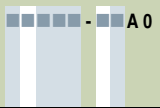
- A 0

Flange DN 65, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 4 8
Flange DN 65, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 0
Flange DN 65, PN 40 Form F, DIN 2501/316L	B 5 1
Flange DN 65, PN 64 Form E, DIN 2501/316L	B 5 2
Flange DN 80, PN 40 Form C, DIN 2501/316L	B 5 3
Flange DN 80, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 5 4
Flange DN 80, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 5 5
Flange DN 80, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 6
Flange DN 80, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 5 7
Flange DN 80, PN 40 Form F, DIN 2501/316L	B 5 8
Flange DN 80, PN 40 Form N, DIN 2501/316L	B 6 0
Flange DN 100, PN 16 Form C, DIN 2501/316L	B 6 2
Flange DN 100, PN 16 Form C, DIN 2501/ Alloy C22 (2.4602)	B 6 3
Flange DN 100, PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 6 4
Flange DN 100, PN 16 Form C, DIN 2501/PFA ⁴⁾	B 6 5
Flange DN 100, PN 16 Form C, DIN 2501/ Enamelled ³⁾	B 6 6
Flange DN 100, PN 16 Form D, DIN 2501/316L	B 6 7
Flange DN 100, PN 16 Form F, DIN 2501/316L	B 6 8
Flange DN 100, PN 16 Form N, DIN 2501/316L	B 7 0
Flange DN 100, PN 40 Form C, DIN 2501/316L	B 7 1
Flange DN 100, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 7 2
Flange DN 100, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 7 3
Flange DN 100, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 7 4
Flange DN 100, PN 40 Form F, DIN 2501/316L	B 7 5
Flange DN 100, PN 40 Form N, DIN 2501/316L	B 7 6
Flange DN 100, PN 40 V13, DIN 2501/316L	B 7 7
Flange DN 100, PN 64 Form E, DIN 2501/316L	B 7 8
Flange DN 100, PN 100 Form E, DIN 2501/316L	B 8 0
Flange DN 100, PN 100 Form L, DIN 2501/316L	B 8 1
Flange DN 125, PN 16 Form F, DIN 2501/316L	B 8 2
Flange DN 125, PN 40 Form C, DIN 2501/316L	B 8 3
Flange DN 125, PN 40 Form N, DIN 2512/ 316L	B 8 4
Flange DN 150, PN 16 Form C, DIN 2501/316L	B 8 5
Flange DN 150, PN 16 Form C, DIN 2501/ Alloy C22 (2.4602)	B 8 6
Flange DN 150, PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 8 7
Flange DN 150, PN 16 Form C, DIN 2501/PFA ⁴⁾	B 8 8
Flange DN 150, PN 16 Form D, DIN 2501/316L	C 0 0
Flange DN 150, PN 40 Form C, DIN 2501/316L	C 0 1
Flange DN 150, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	C 0 2
Flange DN 150, PN 40 Form F, DIN 2501/316L	C 0 3
Flange DN 150, PN 40 Form N, DIN 2512/316L	C 0 4
Flange DN 200, PN 10 Form C, DIN 2501/ECTFE ⁴⁾	C 0 5
Flange DN 200, PN 16 Form C, DIN 2501/316L	C 0 6
Flange DN 25, PN 40 Form B1, EN 1092-1/316L	C 0 7
Flange DN 25, PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602)	C 0 8
Flange DN 25, PN 40 Form B1, EN/ 316L/ PFA ⁴⁾	C 1 0
Flange DN 25, PN 40 Form B1, EN 1092-1/ Enamelled ³⁾	C 1 1
Flange DN 25, PN 40 Form B2, EN 1092-1/316L	C 1 2
Flange DN 25, PN 40 Form F, EN 1092-1/316L	C 1 3
Flange DN 25, PN 63 Form B1, EN 1092-1/316L	C 1 4
Flange DN 25, PN 100 Form B2, EN 1092-1/316L	C 1 5
Flange DN 40, PN 40 Form B1, EN/ 316L	C 1 6

Level Measurement

Point level measurement - Vibrating switches


SITRANS LVL200

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Standard	7ML5746-	SITRANS LVL200, Standard	7ML5746-
Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.		Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	
Flange DN 40, PN 40 Form B1, EN 1092-1/PFA ⁴⁾	C 17	Flange 2" 150 lb RF, ANSI B16.5/316L	C 72
Flange DN 40, PN 40 Form B2, EN/316L	C 18	Flange 2" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	C 73
Flange DN 50, PN 40 Form B1, EN/316L	C 20	Flange 2" 150 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 74
Flange DN 50, PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 21	Flange 2" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	C 75
Flange DN 50, PN 40 Form B1, EN 1092-1/Alloy 400 (2.4360) ZB2977	C 22	Flange 2" 150 lb RF, ANSI B16.5/PFA ⁴⁾	C 76
Flange DN 50, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 23	Flange 2" 150 lb RF, ANSI B16.5/Enamelled ³⁾	C 77
Flange DN 50, PN 40 Form B1, EN/ 316L/PFA ⁴⁾	C 24	Flange 2" 150 lb FF, ANSI B16.5/316L	C 78
Flange DN 50, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 25	Flange 2" 150 lb FF, ANSI B16.5/ECTFE ⁴⁾	C 80
Flange DN 50, PN 40 Form C, EN 1092-1/316L	C 26	Flange 2" 150 lb SG (small groove), ANSI B16.5/316L	C 81
Flange DN 50, PN 40 Form D, EN/316L	C 27	Flange 2" 300 lb RF, ANSI B16.5/316L	C 82
Flange DN 50, PN 40 Form D, EN 1092-1/Alloy C22 (2.4602)	C 28	Flange 2" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602)	C 83
Flange DN 50, PN 40 Form B2, EN 1092-1/316L	C 30	Flange 2" 300 lb RF, ANSI B16.5/ECTFE ⁴⁾	C 85
Flange DN 50, PN 40 Form E, EN 1092-1/316L	C 31	Flange 2" 300 lb RF, ANSI B16.5/PFA ⁴⁾	C 86
Flange DN 80, PN 40 Form B1, EN 1092-1/316L	C 32	Flange 2" 300 lb RF, ANSI B16.5 Enamelled ³⁾	C 87
Flange DN 80, PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 33	Flange 2" 300 lb RJF, ANSI B16.5/316L	C 88
Flange DN 80, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 34	Flange 2" 300 lb ST, ANSI B16.5/316L	D 00
Flange DN 80, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 35	Flange 2" 300 lb LG (large groove), ANSI B16.5/316L	D 01
Flange DN 80, PN 40 Form B2, EN 1092-1/316L	C 36	Flange 2" 300 lb LT, ANSI B16.5/316L	D 02
Flange DN 100, PN 16 Form B1, EN 1092-1/316L	C 37	Flange 2" 600 lb RF, ANSI B16.5/316L	D 03
Flange DN 100, PN 16 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 38	Flange 2" 600 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	D 04
Flange DN 100, PN 16 Form B1, EN 1092-1/Enamelled ³⁾	C 40	Flange 2" 600 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 05
Flange DN 100, PN 40 Form B1, EN 1092-1/316L	C 41	Flange 2" 600 lb RJF, ANSI B16.5/316L	D 06
Flange DN 100, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 42	Flange 2" 600 lb LG, ANSI B16.5/316L	D 07
Flange DN 100, PN 40 Form C, EN 1092-1/316L	C 43	Flange 2" 900 lb RJF, ANSI B16.5/316L	D 08
Flange DN 100, PN 63 Form B2, EN 1092-1/316L	C 44	Flange 2½" 150 lb RF, ANSI B16.5/316L	D 10
Flange DN 150, PN 16 Form B1, EN 1092-1/316L	C 45	Flange 2½" 300 lb RF, ANSI B16.5/316L	D 11
Flange DN 150, PN 16 Form B1, EN 1092-1/PFA ⁴⁾	C 46	Flange 3" 150 lb RF, ANSI B16.5/316L	D 12
Flange DN 150, PN 40 Form B1, EN 1092-1/316L	C 47	Flange 3" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	D 13
Flange DN 150, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 48	Flange 3" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 14
Flange DN 150, PN 40 Form B2, EN 1092-1/316L	C 50	Flange 3" 150 lb RF, ANSI B16.5/PFA ⁴⁾	D 15
Flange 1" 150 lb ANSI B16.5/316L	C 51	Flange 3" 150 lb RF, ANSI B16.5/Enamelled ³⁾	D 16
Flange 1" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	C 52	Flange 3" 150 lb FF, ANSI B16.5/316L	D 17
Flange 1" 150 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 53	Flange 3" 150 lb FF, ANSI B16.5/ECTFE ⁴⁾	D 18
Flange 1" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	C 54	Flange 3" 150 lb FF, ANSI B16.5/PFA ⁴⁾	D 20
Flange 1" 150 lb RF, ANSI B16.5/PFA ⁴⁾	C 55	Flange 3" 300 lb RF, ANSI B16.5/316L	D 21
Flange 1" 150 lb RF, ANSI B16.5/Enamelled ³⁾	C 56	Flange 3" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602)	D 22
Flange 1" 300 lb RF, ANSI B16.5/316L	C 57	Flange 3" 300 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 23
Flange 1" 300 lb RF, ANSI B16.5/ECTFE ⁴⁾	C 58	Flange 3" 300 lb RF, ANSI B16.5/PFA ⁴⁾	D 24
Flange 1" 600 lb RF, ANSI B16.5/316L	C 60	Flange 3" 300 lb RF, ANSI B16.5/Enamelled ³⁾	D 25
Flange 1½" 150 lb RF, ANSI B16.5/316L	C 61	Flange 3" 600 lb RF, ANSI B16.5/316L	D 26
Flange 1½" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	C 62	Flange 3½" 150 lb RF, ANSI B16.5/316L	D 27
Flange 1½" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	C 63	Flange 3½" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 28
Flange 1½" 150 lb RF, ANSI B16.5/PFA ⁴⁾	C 64	Flange 4" 150 lb RF, ANSI B16.5/316L	D 30
Flange 1½" 150 lb RF, ANSI B16.5 Enamelled ³⁾	C 65	Flange 4" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	D 31
Flange 1½" 150 lb FF, ANSI B16.5/ECTFE ⁴⁾	C 66	Flange 4" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 32
Flange 1½" 300 lb RF, ANSI B16.5/316L	C 67	Flange 4" 150 lb RF, ANSI B16.5/PFA ⁴⁾	D 33
Flange 1½" 300 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 68	Flange 4" 150 lb RF, ANSI B16.5/Enamelled ³⁾	D 34
Flange 1½" 300 lb RF, ANSI B16.5/ECTFE ³⁾	C 70	Flange 4" 150 lb LT, ANSI B16.5/316L	D 35
Flange 1½" 600 lb RF, ANSI B16.5/316L	C 71	Flange 4" 300 lb RF, ANSI B16.5/316L	D 36
		Flange 4" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602)	D 37
		Flange 4" 300 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 38
		Flange 4" 300 lb RJF, ANSI B16.5/316L	D 40
		Flange 4" 300 lb LG, ANSI B16.5/316L	D 41
		Flange 4" 300 lb LT, ANSI B16.5/316L	D 42
		Flange 4" 600 lb RF, ANSI B16.5/316L	D 43
		Flange 4" 600 lb RJF, ANSI B16.5/316L	D 44

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.
SITRANS LVL200, Standard Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5746-  A 0
Flange 6" 150 lb RF, ANSI B16.5/316L	D 4 5
Flange 6" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602)	D 4 6
Flange 6" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 4 7
Flange 6" 150 lb RF, ANSI B16.5/PFA ⁴⁾	D 4 8
Flange 6" 150 lb RJF, ANSI B16.5/316L	D 5 0
Flange 6" 300 lb RF, ANSI B16.5/316L	D 5 1
Flange 8" 150 lb RF, ANSI B16.5/316L	D 5 2
Flange 8" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 5 3
Flange 1" BS.10 Table E/316L	D 5 4
Flange 1" BS.10 Table E/PFA ⁴⁾	D 5 5
Flange 1½" BS.10 Table E/316L	D 5 6
Flange 3½" BS.10 Table E/316L	D 5 7
Flange 4" BS.10 Table E/ECTFE ⁴⁾	D 5 8
Flange DN 40 10K, JIS/316L	D 6 0
Flange DN 50 10K, JIS/316L	D 6 1
Flange DN 80 10K, JIS/316L	D 6 2
Flange DN 100 10K, JIS/316L	D 6 3
Thread R1 PN 64, EN 10226-1/316L	D 6 5
Flange 2" 900 lb RF, ASME B16.5/316L	D 7 0
Adapter/Process temperature	
Without adapter/-50 ... +150 °C (-58 ... +302 °F)	1
With adapter/-50 ... +200 °C (-58 ... +392 °F)	2
With adapter/-50 ... +250 °C (-58 ... +482 °F)	3
With gas-tight leadthrough/-50 ... +150 °C (-58 ... +302 °F)	4
With gas-tight leadthrough/-50 ... +250 °C (-58 ... +482 °F)	5
Housing/Cable entry	
Aluminum IP66/IP67/M20 x 1.5	A
Aluminum IP66/IP67/½" NPT	B
316L stainless steel (electropolished) IP66/IP67/M20 x 1.5	C
316L stainless steel (electropolished) IP66/IP67/½" NPT	D
Plastic single chamber IP66/IP67/M20 x 1.5 ¹⁴⁾	E
Plastic single chamber IP66/IP67/½" NPT ¹⁴⁾	F
Stainless steel chamber (precision casting) IP66/IP67/M20 x 1.5 ¹⁴⁾	G
Stainless steel chamber (precision casting) IP66/IP67/½" NPT ¹⁴⁾	H
Aluminum IP66/IP67/M20 x 1.5 Special HARTING plug (bent) according to Tier One (ZB7555) ¹⁴⁾	V

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Cleaning including Certificate (oil, grease, and silicone free)	W01
Identification label (measurement loop) stainless steel: max. 40 characters, add in plain text. To add more than one line, use a coma "," for line break.	Y17
Identification Label (measurement loop) foil: max. 40 characters add in plain text. To add more than one line, use a coma "," for line break.	Y18
3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹⁰⁾ Note: not available with Process connection and Rigid extension coatings PFA, ECTFE, and Enamel.	D07

Selection and Ordering data	Order code
2.2-Factory certificate for material (EN 10204) ¹⁰⁾	C15
Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 ¹⁰⁾	C20
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ¹⁰⁾	C13
X-ray test + 3.1 certificate/instrument ¹⁰⁾	C14
Positive material identification test + 3.1 certificate/instrument ¹⁰⁾	C16
Roughness test + 3.1 certificate/instrument ¹⁰⁾	C18
3.1-Inspection Certificate for instrument with test data (EN 10204)	C25
Quality and test plan	C26
Pressure test + 3.1 certificate/instrument ¹⁰⁾	C31
Helium leak test + 3.1 certificate/instrument ¹⁰⁾	C32
Ferrite measuring accuracy to DIN32514-1 + 3.1 certificate/instrument ¹⁰⁾	C60
Pressure test according to Norsok + 3.1 certificate/instrument ¹⁰⁾	C61
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Spare Parts and Accessories	Article No.
Electronics module SITRANS LVL200 Relay	7ML1830-1NC
Electronics module SITRANS LVL200 Contactless	7ML1930-6AA
NAMUR spare electronics module	A5E35817107
LVL200 Threaded Welded Socket	
• G¾" A/316L with FKM Seal	7ML1930-1EE
• G1" A/316L with FKM Seal	7ML1930-1EF
• M27 x 1.5/316L with FKM Seal	7ML1930-1EG
• G¾" A/316L with EPDM Seal	7ML1930-1EH
• G1" A/316L with EPDM Seal	7ML1930-1EJ
• M27 x 1.5/316L with EPDM Seal	7ML1930-1EK

- 1) Only available with Adapter/Process temperature options 1, 3, 4, and 5
- 2) Only available with housing option B
- 3) Available with Adapter/Process temperature options 1, 2, and 4
- 4) Not in combination with Adapter/Process temperature options 2, 3, and 5
- 5) Not in combination with Adapter/Process temperature options 2, 4, and 5
- 8) Only available with Electronics options 4 and 5
- 9) Not in combination with Process Connection/Material options ECTFE Coated Probes
- 10) Listed Certificates are not available with all configurations please contact factory for more information
- 11) Not available with Electric Options 0, 1, 3, 4, 5, 6, and Housing/Protection/Cable Option V
- 12) Available with Housing/Protection/Cable options V
- 13) Approval option P is not available with PFA and ECTFE coating options
- 14) Only available with Approval option A

• We can offer shorter delivery times for configurations designated with the Quick Ship Symbol •. For details see page 10/11 in the appendix.

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-	SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			
Electronics			
Contactless electronic switch 20 ... 250 V AC/DC ¹³⁾	1	Thread G2" A, PN 64/316L	A 2 8
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC NAMUR signal ¹⁾¹³⁾	2	Thread M27 x 1.5 PN 64/316L	A 3 0
Transistor (NPN/PNP) 10 ... 55 V DC	4	Cyl. socket/316Ti/1.4581 ECTFE coated ZB2984 ⁴⁾	A 3 1
Two-wire (8/16 mA) 12 ... 36 V DC ¹⁸⁾	5	Conus DN 25 PN 40/316L Ra < 0.3 µm	A 3 2
	6	Conus DN 25 PN 40/316L Ra < 0.8 µm	A 3 3
		Conus DN 25 PN 40/ECTFE (ZB3033) ⁴⁾	A 3 4
		Conus M52 PN 40/316L	A 3 5
		Conus M52 PN 40/316L Ra < 0.3 µm	A 3 6
		Conus M52 PN 40/316L Ra < 0.8 µm	A 3 7
		Tri-Clamp 1" PN 16/316L Ra < 0.3 µm	A 3 8
		Tri-Clamp 1" PN 16/Alloy C22 (2.4602)	A 4 0
		Tri-Clamp 1" PN 16/316L Ra < 0.8 µm	A 4 1
		Tri-Clamp 1½" PN 16/316L Ra < 0.3 µm	A 4 2
		Tri-Clamp 1½" PN 16/Alloy C22 (2.4602)	A 4 3
		Tri-Clamp 1½" PN 16/316L Ra < 0.8 µm	A 4 4
		Tri-Clamp 2" PN 16/316L Ra < 0.3 µm	A 4 5
		Tri-Clamp 2" PN 16/Alloy C22 (2.4602)	A 4 6
		Tri-Clamp 2" PN 16/316L Ra < 0.8 µm	A 4 7
		Tri-Clamp 2½" PN 10/316L Ra < 0.3 µm	A 4 8
		Tri-Clamp 2½" PN 10/316L Ra < 0.8 µm	A 5 0
		Tri-Clamp 3" PN 10/316L Ra < 0.3 µm	A 5 1
		Tri-Clamp 3" PN 10/316L Ra < 0.8 µm	A 5 2
		Bolting DN 32 PN 40 DIN11851/316L Ra < 0.3 µm	A 5 3
		Bolting DN 32 PN 40 DIN11851/316L Ra < 0.8 µm	A 5 4
		Bolting DN 25 PN 40 DIN11851/316L Ra < 0.3 µm	A 5 5
		Bolting DN 25 PN 40 DIN11851/316L Ra < 0.8 µm	A 5 6
		Bolting DN 40 PN 40 DIN11851/316L Ra < 0.3 µm	A 5 7
		Bolting DN 40 PN 40 DIN11851/316L Ra < 0.8 µm	A 5 8
		Bolting DN 40 PN 40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 6 0
		Bolting DN 50 PN 25 DIN11851/316L Ra < 0.3 µm	A 6 1
		Bolting DN 50 PN 25 DIN11851/316L Ra < 0.8 µm	A 6 2
		Bolting DN 50 PN 25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 6 3
		Hygienic w.compr.nut F40 PN 25/316L	A 6 4
		Hygienic w.compr.nut F40 PN 25/316L Ra < 0.3 µm	A 6 5
		Hygienic w.compr.nut F40 PN 25/316L Ra < 0.8 µm	A 6 6
		Varivent N50-40/316L Ra < 0.3 µm	A 6 7
		Varivent N50-40/316L Ra < 0.8 µm	A 6 8
		Varivent N125/100/316L Ra < 0.8 µm	A 7 0
		DRD flange PN 40/316L ZB3007	A 7 1
		SMS DN 38/316L Ra < 0.8 µm ⁴⁾	A 7 2
		SMS DN 51 PN 6/316L Ra < 0.8 µm ⁴⁾	A 7 3
		Swagelok VCR screwing ZG2579 PN 64/316L	A 7 4
		Neumo biocontrol size 25 PN 16/316L Ra < 0.8 µm	A 7 5
		Neumo biocontrol size 50 PN 16/316L Ra < 0.8 µm	A 7 6
		Neumo biocontrol size 65 PN 16/316L Ra < 0.8 µm	A 7 7
		Neumo biocontrol size 80 PN 16/316L Ra < 0.8 µm	A 7 8
		SÜDMO DN 50 PN 10/316L Ra < 0.8 µm	A 8 0
		Small flange DN 25 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 1
		Small flange DN 40 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 2
		Ingold connection PN 16/316L Ra < 0.8 µm	A 8 3
		Collar clamp connection DN33,7 PN40 Form A, DIN11864-3/1.4435 (BN2, Ra < 0.8 µm)	A 8 4
		Collar flange DN50 PN16 Form A, DIN11864-2/316L (Ra < 0.8 µm)	A 8 5
		Flange DN 25 PN 6 Form C, DIN 2501/316L	A 8 6
Process connection			
Thread G¾" A, PN 64/316L	A 0 0		
Thread G¾" A, PN 64/316L Ra < 0.8 µm	A 0 1		
Thread ¾" NPT, PN 64/316L	A 0 2		
Thread ¾" NPT, PN 64/316L Ra < 0.8 µm	A 0 3		
Thread ¾" NPT, PN 64/Alloy 400 (2.4360)	A 0 4		
Thread G¾" A, PN 64/Alloy C22 (2.4602)	A 0 5		
Thread ¾" NPT, PN 64/Alloy C22 (2.4602)	A 0 6		
Thread G1" A, PN 64/316L	A 0 7		
Thread G1" A, PN 64/316L ECTFE coated MB1982 ⁴⁾	A 0 8		
Thread G1" A, PN 64/316L PFA coated ⁴⁾	A 1 0		
Thread G1" A, PN 64/Alloy 400 (2.4360)	A 1 1		
Thread G1" A, PN 64/316L Ra < 0.8 µm	A 1 3		
Thread 1" NPT, PN 64/316L	A 1 4		
Thread 1" NPT, PN 64/316L ECTFE coated MB1982 ⁴⁾	A 1 5		
Thread 1" NPT, PN 64/316L PFA coated ⁴⁾	A 1 6		
Thread 1" NPT, PN 64/Alloy 400 (2.4360)	A 1 7		
Thread 1" NPT, PN 64/Alloy C22 (2.4602)	A 1 8		
Thread G1" A, PN 64/Alloy C22 (2.4602)	A 2 0		
Thread G1½" A, PN 64/316L	A 2 1		
Thread G1½" A, PN 64/316L Ra < 0.8 µm	A 2 2		
Thread G1½" A, PN 64/Alloy C22 (2.4602)	A 2 3		
Thread 1" NPT, PN 64/Alloy C22 (2.4602)	A 2 4		
Thread 1½" NPT, PN 64/316L	A 2 5		
Thread 1½" NPT, PN 64/316L Ra < 0.8 µm	A 2 6		
Thread 1½" NPT, PN 64/Alloy C22 (2.4602)	A 2 7		

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.

7ML5747-

Flange DN 25 PN 6 Form C, DIN 2501/PFA ⁴⁾	A 8 7
Flange DN 25 PN 40 Form C, DIN 2501/316L	A 8 8
Flange DN 25 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 0 0
Flange DN 25 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 0 1
Flange DN 25 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 0 2
Flange DN 25 PN 40 Form D, DIN 2501/316L	B 0 3
Flange DN 25 PN 40 Form F, DIN 2501/316L	B 0 4
Flange DN 25 PN 40 Form N, DIN 2501/316L	B 0 5
Flange DN 25 PN 40 Form N, DIN 2501/ Alloy C22 (2.4602) plated	B 0 6
Flange DN 25 PN 40 Form N, DIN 2501/ Alloy 400 (2.4360) solid	B 0 7
Flange DN 25 PN 40 V13, DIN 2501/316L	B 0 8
Flange DN 32 PN 40 Form C, DIN 2501/316L	B 1 0
Flange DN 32 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 1
Flange DN 40 PN 6 Form C, DIN 2501/316L	B 1 2
Flange DN 40 PN 6 Form C, DIN 2501/ECTFE ⁴⁾	B 1 3
Flange DN 40 PN 40 Form C, DIN 2501/316L	B 1 4
Flange DN 40 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 1 5
Flange DN 40 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 6
Flange DN 40 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 1 7
Flange DN 40 PN 40 Form C, DIN 2501/Enamelled ³⁾	B 1 8
Flange DN 40 PN 40 Form F, DIN 2501/316L	B 2 0
Flange DN 40 PN 40 Form N, DIN 2501/316L	B 2 1
Flange DN 40 PN 40 Form E, DIN 2501/316L	B 2 2
Flange DN 40 PN 40 V13, DIN 2501/316L	B 2 3
Flange DN 50 PN 40 Form C, DIN 2501/316L	B 2 4
Flange DN 50 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 2 5
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 2 6
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE (ZB3108) ⁴⁾	B 2 7
Flange DN 50 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 2 8
Flange DN 50 PN 40 Form D, DIN 2501/316L	B 3 0
Flange DN 50 PN 40 Form D, DIN 2501/ Alloy C22 (2.4602)	B 3 1
Flange DN 50 PN 40 Form F, DIN 2501/316L	B 3 2
Flange DN 50 PN 40 Form N, DIN 2501/316L	B 3 3
Flange DN 50 PN 40 Form N, DIN 2501/ Alloy C22 (2.4602) solid	B 3 4
Flange DN 50 PN 40 Form E, DIN 2501/316L	B 3 5
Flange DN 50 PN 40 V13, DIN 2501/316L	B 3 6
Flange DN 50 PN 40 R13, DIN 2501/316L	B 3 7
Flange DN 50 PN 64 Form F, DIN 2501/316L	B 3 8
Flange DN 50 PN 64 Form N, DIN 2501/ Alloy C22 (2.4602) plated	B 4 0
Flange DN 50 PN 64 Form C, DIN 2501/316L	B 4 1
Flange DN 50 PN 64 Form L, DIN 2501/316L	B 4 2
Flange DN 50 PN 100 Form E, DIN 2501/316L	B 4 3
Flange DN 50 PN 100 Form L, DIN 2501/316L	B 4 4
Flange DN 65 PN 40 Form C, DIN 2501/316L	B 4 5
Flange DN 65 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 4 6
Flange DN 65 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 4 7
Flange DN 65 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 4 8
Flange DN 65 PN 40 Form F, DIN 2501/316L	B 5 0
Flange DN 65 PN 64 Form E, DIN 2501/316L	B 5 1
Flange DN 80 PN 40 Form C, DIN 2501/316L	B 5 2

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.

7ML5747-

Flange DN 80 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 5 3
Flange DN 80 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 5 4
Flange DN 80 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 5
Flange DN 80 PN 40 Form F, DIN 2501/316L	B 5 6
Flange DN 80 PN 40 Form N, DIN 2501/316L	B 5 7
Flange DN 80 PN 40 Form N, DIN 2501/ Alloy C22 (2.4602) plated	B 5 8
Flange DN 100 PN 16 Form C, DIN 2501/316L	B 6 0
Flange DN 100 PN 16 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 6 1
Flange DN 100 PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 6 2
Flange DN 100 PN 16 Form C, DIN 2501/PFA ⁴⁾	B 6 3
Flange DN 100 PN 16 Form D, DIN 2501/316L	B 6 4
Flange DN 100 PN 16 Form F, DIN 2501/316L	B 6 5
Flange DN 100 PN 16 Form N, DIN 2501/316L	B 6 6
Flange DN 100 PN 40 Form C, DIN 2501/316L	B 6 7
Flange DN 100 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 6 8
Flange DN 100 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 7 0
Flange DN 100 PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 7 1
Flange DN 100 PN 40 Form F, DIN 2501/316L	B 7 2
Flange DN 100 PN 40 Form N, DIN 2501/316L	B 7 3
Flange DN 100 PN 40 V13, DIN 2501/316L	B 7 4
Flange DN 100 PN 64 Form E, DIN 2501/316L	B 7 5
Flange DN 100 PN 100 Form E, DIN 2501/316L	B 7 6
Flange DN 100 PN 100 Form L, DIN 2501/316L	B 7 7
Flange DN 125 PN 16 Form F, DIN 2501/316L	B 7 8
Flange DN 125 PN 40 Form C, DIN 2501/316L	B 8 0
Flange DN 125 PN 40 Form N, DIN 2512/316L	B 8 1
Flange DN 150 PN 16 Form C, DIN 2501/316L	B 8 2
Flange DN 150 PN 16 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 8 3
Flange DN 150 PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 8 4
Flange DN 150 PN 16 Form C, DIN 2501/PFA ⁴⁾	B 8 5
Flange DN 150 PN 16 Form D, DIN 2501/316L	B 8 6
Flange DN 150 PN 40 Form C, DIN 2501/316L	B 8 7
Flange DN 150 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) plated	B 8 8
Flange DN 150 PN 40 Form F, DIN 2501/316L	C 0 0
Flange DN 150 PN 40 Form N, DIN 2512/316L	C 0 1
Flange DN 200 PN 10 Form C, DIN 2501/ECTFE ⁴⁾	C 0 2
Flange DN 200 PN 16 Form C, DIN 2501/316L	C 0 3
Flange DN 25 PN 40 Form B1, EN 1092-1/316L	C 0 4
Flange DN 25 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) plated	C 0 5
Flange DN 25 PN 40 Form B1, EN/316L/PFA ⁴⁾	C 0 6
Flange DN 25 PN 40 Form B1, EN 1092-1/ Enamelled ³⁾	C 0 7
Flange DN 25 PN 40 Form B2, EN 1092-1/316L	C 0 8
Flange DN 25 PN 40 Form F, EN 1092-1/316L	C 1 0
Flange DN 25 PN 63 Form B1, EN 1092-1/316L	C 1 1
Flange DN 25 PN 100 Form B2, EN 1092-1/316L	C 1 2
Flange DN 40 PN 40 Form B1, EN/316L	C 1 3
Flange DN 40 PN 40 Form B1, EN 1092-1/PFA ⁴⁾	C 1 4
Flange DN 40 PN 40 Form B2, EN/316L	C 1 5
Flange DN 50 PN 40 Form B1, EN/316L	C 1 6
Flange DN 50 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) plated	C 1 7
Flange DN 50 PN 40 Form B1, EN 1092-1/ Alloy 400 (2.4360) ZB2977	C 1 8
Flange DN 50 PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 2 0

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-	SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-
Flange DN 50 PN 40 Form B1, EN/316L/PFA ⁴	C 21	Flange 2" 150 lb RF, ANSI B16.5/Enamelled ³	C 74
Flange DN 50 PN 40 Form B1, EN 1092-1/Enamelled ³	C 22	Flange 2" 150 lb FF, ANSI B16.5/316L	C 75
Flange DN 50 PN 40 Form C, EN 1092-1/316L	C 23	Flange 2" 150 lb FF, ANSI B16.5/ECTFE ⁴	C 76
Flange DN 50 PN 40 Form D, EN/316L	C 24	Flange 2" 150 lb SG (small groove), ANSI B16.5/316L	C 77
Flange DN 50 PN 40 Form D, EN 1092-1/Alloy C22 (2.4602) plated	C 25	Flange 2" 300 lb RF, ANSI B16.5/316L	C 78
Flange DN 50 PN 40 Form B2, EN 1092-1/316L	C 26	Flange 2" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	C 80
Flange DN 50 PN 40 Form E, EN 1092-1/316L	C 27	Flange 2" 300 lb RF, ANSI B16.5/ECTFE ⁴	C 82
Flange DN 80 PN 40 Form B1, EN 1092-1/316L	C 28	Flange 2" 300 lb RF, ANSI B16.5/PFA ⁴	C 83
Flange DN 80 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) plated	C 30	Flange 2" 300 lb RJF, ANSI B16.5/316L	C 85
Flange DN 80 PN 40 Form B1, EN 1092-1/ECTFE ⁴	C 31	Flange 2" 300 lb ST, ANSI B16.5/316L	C 86
Flange DN 80 PN 40 Form B1, EN 1092-1/Enamelled ³	C 32	Flange 2" 300 lb LG (large groove), ANSI B16.5/316L	C 87
Flange DN 80 PN 40 Form B2, EN 1092-1/316L	C 33	Flange 2" 300 lb LT, ANSI B16.5/316L	C 88
Flange DN 100 PN 16 Form B1, EN 1092-1/316L	C 34	Flange 2" 600 lb RF, ANSI B16.5/316L	D 00
Flange DN 100 PN 16 Form B1, EN 1092-1/Alloy C22 (2.4602) plated	C 35	Flange 2" 600 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	D 01
Flange DN 100 PN 16 Form B1, EN 1092-1/Enamelled ³	C 36	Flange 2" 600 lb RF, ANSI B16.5/ECTFE ⁴	D 02
Flange DN 100 PN 40 Form B1, EN 1092-1/316L	C 37	Flange 2" 600 lb RJF, ANSI B16.5/316L	D 03
Flange DN 100 PN 40 Form B1, EN 1092-1/Enamelled ³	C 38	Flange 2" 600 lb LG, ANSI B16.5/316L	D 04
Flange DN 100 PN 40 Form C, EN 1092-1/316L	C 40	Flange 2" 900 lb RJF, ANSI B16.5/316L	D 05
Flange DN 100 PN 63 Form B2, EN 1092-1/316L	C 41	Flange 2½" 150 lb RF, ANSI B16.5/316L	D 06
Flange DN 150 PN 16 Form B1, EN 1092-1/316L	C 42	Flange 2½" 300 lb RF, ANSI B16.5/316L	D 07
Flange DN 150 PN 16 Form B1, EN 1092-1/PFA ⁴	C 43	Flange 3" 150 lb RF, ANSI B16.5/316L	D 08
Flange DN 150 PN 40 Form B1, EN 1092-1/316L	C 44	Flange 3" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	D 10
Flange DN 150 PN 40 Form B1, EN 1092-1/ECTFE ⁴	C 45	Flange 3" 150 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	D 11
Flange DN 150 PN 40 Form B2, EN 1092-1/316L	C 46	Flange 3" 150 lb RF, ANSI B16.5/ECTFE ⁴	D 12
Flange 1" 150 lb ANSI B16.5/316L	C 47	Flange 3" 150 lb RF, ANSI B16.5/PFA ⁴	D 13
Flange 1" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	C 48	Flange 3" 150 lb RF, ANSI B16.5/Enamelled ³	D 14
Flange 1" 150 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 50	Flange 3" 150 lb FF, ANSI B16.5/316L	D 15
Flange 1" 150 lb RF, ANSI B16.5/ECTFE ⁴	C 51	Flange 3" 150 lb FF, ANSI B16.5/ECTFE ⁴	D 16
Flange 1" 150 lb RF, ANSI B16.5/PFA ⁴	C 52	Flange 3" 150 lb FF, ANSI B16.5/PFA ⁴	D 17
Flange 1" 150 lb RF, ANSI B16.5/Enamelled ³	C 53	Flange 3" 300 lb RF, ANSI B16.5/316L	D 18
Flange 1" 300 lb RF, ANSI B16.5/316L	C 54	Flange 3" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	D 20
Flange 1" 300 lb RF, ANSI B16.5/ECTFE ⁴	C 55	Flange 3" 300 lb RF, ANSI B16.5/ECTFE ⁴	D 21
Flange 1" 600 lb RF, ANSI B16.5/316L	C 56	Flange 3" 300 lb RF, ANSI B16.5/PFA ⁴	D 22
Flange 1½" 150 lb RF, ANSI B16.5/316L	C 57	Flange 3" 300 lb RF, ANSI B16.5/Enamelled ³	D 23
Flange 1½" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	C 58	Flange 3" 600 lb RF, ANSI B16.5/316L	D 24
Flange 1½" 150 lb RF, ANSI B16.5/ECTFE ⁴	C 60	Flange 3½" 150 lb RF, ANSI B16.5/316L	D 25
Flange 1½" 150 lb RF, ANSI B16.5/PFA ⁴	C 61	Flange 3½" 150 lb RF, ANSI B16.5/ECTFE ⁴	D 26
Flange 1½" 150 lb RF, ANSI B16.5 Enamelled ³	C 62	Flange 4" 150 lb RF, ANSI B16.5/316L	D 27
Flange 1½" 150 lb FF, ANSI B16.5/ECTFE ⁴	C 63	Flange 4" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	D 28
Flange 1½" 300 lb RF, ANSI B16.5/316L	C 64	Flange 4" 150 lb RF, ANSI B16.5/ECTFE ⁴	D 30
Flange 1½" 300 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 65	Flange 4" 150 lb RF, ANSI B16.5/PFA ⁴	D 31
Flange 1½" 300 lb RF, ANSI B16.5/ECTFE ⁴	C 66	Flange 4" 150 lb RF, ANSI B16.5/Enamelled ³	D 32
Flange 1½" 600 lb RF, ANSI B16.5/316L	C 67	Flange 4" 150 lb LT, ANSI B16.5/316L	D 33
Flange 2" 150 lb RF, ANSI B16.5/316L	C 68	Flange 4" 300 lb RF, ANSI B16.5/316L	D 34
Flange 2" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	C 70	Flange 4" 300 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	D 35
Flange 2" 150 lb RF, ANSI B16.5/Alloy 400 (2.4360) ZB2977	C 71	Flange 4" 300 lb RF, ANSI B16.5/ECTFE ⁴	D 36
Flange 2" 150 lb RF, ANSI B16.5/ECTFE ⁴	C 72	Flange 4" 300 lb RJF, ANSI B16.5/316L	D 37
Flange 2" 150 lb RF, ANSI B16.5/PFA ⁴	C 73	Flange 4" 300 lb LG, ANSI B16.5/316L	D 38
		Flange 4" 300 lb LT, ANSI B16.5/316L	D 40
		Flange 4" 600 lb RF, ANSI B16.5/316L	D 41
		Flange 4" 600 lb RJF, ANSI B16.5/316L	D 42
		Flange 5" 150 lb RF, ANSI B16.5/316L	D 43

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.

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Flange 6" 150 lb RF, ANSI B16.5/316L	D 4 4
Flange 6" 150 lb RF, ANSI B16.5/Alloy C22 (2.4602) plated	D 4 5
Flange 6" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 4 6
Flange 6" 150 lb RF, ANSI B16.5/PFA ⁴⁾	D 4 7
Flange 6" 150 lb RJF, ANSI B16.5/316L	D 4 8
Flange 6" 300 lb RF, ANSI B16.5/316L	D 5 0
Flange 8" 150 lb RF, ANSI B16.5/316L	D 5 1
Flange 8" 150 lb RF, ANSI B16.5/ECTFE ⁴⁾	D 5 2
Flange 1" BS.10 Table E/316L	D 5 3
Flange 1" BS.10 Table E/PFA ⁴⁾	D 5 4
Flange 1½" BS.10 Table E/316L	D 5 5
Flange 3½" BS.10 Table E/316L	D 5 6
Flange 4" BS.10 Table E/ECTFE ⁴⁾	D 5 7
Flange DN 40 10K, JIS/316L	D 5 8
Flange DN 50 10K, JIS/316L	D 6 0
Flange DN 80 10K, JIS/316L	D 6 1
Flange DN 100 10K, JIS/316L	D 6 2
Thread R1 PN64, EN10226-1/316L ¹⁶⁾	D 6 5
Flange 2" 900 lb RF, ASME B16.5/316L	D 7 0
Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	D 7 1

Adapter/Process temperature

Without adapter/-50 ... +150 °C	1
With adapter/-50 ... +200 °C	2
With adapter/-50 ... +250 °C	3
With gas-tight leadthrough/-50 ... +150 °C	4
With gas-tight leadthrough/-50 ... +250 °C	5

Housing/Cable entry

Aluminum IP66/IP67/M20 x 1.5	A
Aluminum IP66/IP67/½" NPT	B
316L stainless steel (electropolished) IP66/IP67/M20 x 1.5 ¹⁰⁾	C
316L stainless steel (electropolished) IP66/IP67/½" NPT ¹⁷⁾	D
Plastic single chamber IP66/IP67/M20 x 1.5 ¹⁸⁾	E
Plastic single chamber IP66/IP67/½" NPT ¹⁸⁾	F
Stainless steel chamber (precision casting) IP66/IP67/M20 x 1.5 ¹⁸⁾	G
Stainless steel chamber (precision casting) IP66/IP67/½" NPT ¹⁸⁾	H
Aluminum IP66/IP67/M20 x 1.5 Special HARTING plug (bent) according to Tier One (ZB7555) ¹⁸⁾	V

NOTE:

When selecting a Rigid Extension option, extension coating must match the process connection coating and the material and surface roughness type.

Rigid Extension 316L

80 ... 500 mm	A 0
501 ... 1 000 mm	A 1
1 001 ... 1 500 mm	A 2
1 501 ... 2 000 mm	A 3
2 001 ... 2 500 mm	A 4
2 501 ... 3 000 mm	A 5
3 001 ... 3 500 mm	A 6
3 501 ... 4 000 mm	A 7

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.

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Rigid Extension ECTFE coated

80 ... 500 mm	B 0
501 ... 1 000 mm	B 1
1 001 ... 1 500 mm	B 2
1 501 ... 2 000 mm	B 3
2 001 ... 2 500 mm	B 4
2 501 ... 3 000 mm	B 5

Rigid Extension PFA coated

80 ... 500 mm	C 0
501 ... 1 000 mm	C 1
1 001 ... 1 500 mm	C 2
1 501 ... 2 000 mm	C 3
2 001 ... 2 500 mm	C 4
2 501 ... 3 000 mm	C 5
3 001 ... 3 500 mm	C 6
3 501 ... 4 000 mm	C 7

Rigid Extension 316L Ra ≤ 0.8 µm

80 ... 500 mm	D 0
501 ... 1 000 mm	D 1
1 001 ... 1 500 mm	D 2
1 501 ... 2 000 mm	D 3
2 001 ... 2 500 mm	D 4
2 501 ... 3 000 mm	D 5
3 001 ... 3 500 mm	D 6
3 501 ... 4 000 mm	D 7

Rigid Extension 316L Ra ≤ 0.3 µm

80 ... 500 mm	E 0
501 ... 1 000 mm	E 1
1 001 ... 1 500 mm	E 2
1 501 ... 2 000 mm	E 3
2 001 ... 2 500 mm	E 4
2 501 ... 3 000 mm	E 5
3 001 ... 3 500 mm	E 6
3 501 ... 4 000 mm	E 7

Rigid Extension Enamelled version

80 ... 250 mm	F 0
251 ... 500 mm	F 1
501 ... 750 mm	F 2
751 ... 1 000 mm	F 3
1 001 ... 1 250 mm	F 4
1 251 ... 1 500 mm	F 5

Rigid Extension Alloy C22 (2.4602)

80 ... 500 mm	G 0
501 ... 1 000 mm	G 1
1 001 ... 1 500 mm	G 2
1 501 ... 2 000 mm	G 3
2 001 ... 2 500 mm	G 4
2 501 ... 3 000 mm	G 5
3 001 ... 3 500 mm	G 6
3 501 ... 4 000 mm	G 7

Rigid Extension Alloy 400 (2.4360)

80 ... 500 mm	H 0
501 ... 1 000 mm	H 1
1 001 ... 1 500 mm	H 2
1 501 ... 2 000 mm	H 3
2 001 ... 2 500 mm	H 4
2 501 ... 3 000 mm	H 5

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs		Spare Parts and Accessories	
Please add "-Z" to Article No. and specify Order code(s).		Electronics module SITRANS LVL200 Relay	7ML1830-1NC
Cleaning including Certificate (oil, grease, and silicone free)	W01	Electronics module SITRANS LVL200 Contactless	7ML1930-6AA
Enter the total insertion length in plain text description, max. 4 000 mm (157.48 inch)	Y01	NAMUR spare electronics module	A5E35817107
Identification label (measurement loop) stainless steel: max. 40 characters, add in plain text. To add more than one line, use a coma "," for line break.	Y17	Lock fitting, unpressurized, G1" A/316L	7ML1930-1DQ
Identification Label (measurement loop) foil: max. 40 characters add in plain text. To add more than one line, use a coma "," for line break.	Y18	Lock fitting, unpressurized, 1" NPT/316L	7ML1930-1DR
3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹²⁾	D07	Lock fitting, unpressurized, G1 ... 1/2" A/316L	7ML1930-1DS
Note: not available with Process connection and Rigid extension coatings PFA, ECTFE, and Enamel.		Lock fitting, unpressurized, 1 ... 1/2" NPT/316L	7ML1930-1DT
2.2-Factory certificate for material (EN 10204) ¹²⁾	C15	Lock fitting, -1 ... 16 bar, G1" A/316L	7ML1930-1DU
Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 ¹²⁾	C20	Lock fitting, -1 ... 16 bar, 1" NPT/316L	7ML1930-1DV
Dye penetration test, results confirmed via a 3.1 certificate/instrument ¹²⁾	C13	Lock fitting, -1 ... 16 bar, G1 ... 1/2" A/316L	7ML1930-1DW
X-ray test + 3.1 certificate/instrument ¹²⁾	C14	Lock fitting, -1 ... 16 bar, 1 ... 1/2" NPT/316L	7ML1930-1DX
Positive material identification test + 3.1 certificate/instrument ¹²⁾	C16	Lock fitting, -1 ... 64 bar, G1" A/316L	7ML1930-1EA
Roughness test + 3.1 certificate/instrument ¹²⁾	C18	Lock fitting, -1 ... 64 bar, 1" NPT/316L	7ML1930-1EB
3.1-Inspection Certificate for instrument with test data (EN 10204)	C25	Lock fitting, -1 ... 64 bar, G1 ... 1/2" A/316L	7ML1930-1EC
Quality and test plan	C26	Lock fitting, -1 ... 64 bar, 1 ... 1/2" NPT/316L	7ML1930-1ED
Pressure test + 3.1 certificate/instrument ¹²⁾	C31		
Helium leak test + 3.1 certificate/instrument ¹²⁾	C32		
Ferrite measuring accuracy to DIN 32514-1 + 3.1 certificate/instrument ¹²⁾	C60		
Pressure test according to Norsok + 3.1 certificate/instrument ¹²⁾	C61		
Operating Instructions			
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation			

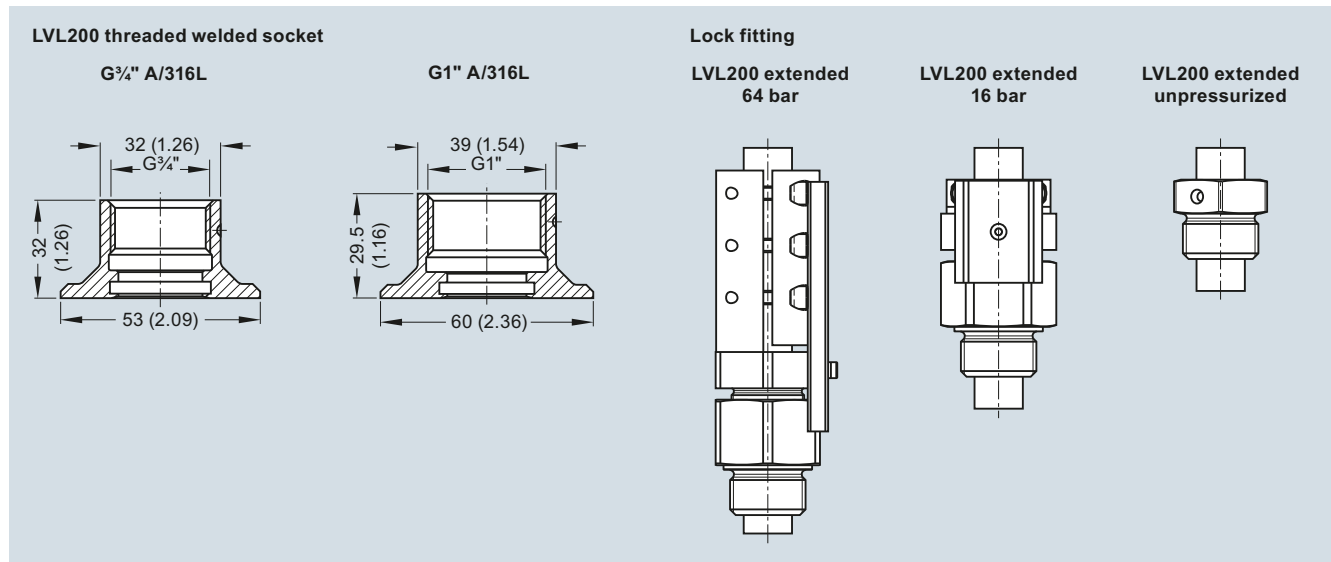
- 1) Available with Adapter/Process temperature options 1, 3, 4, and 5 only
- 2) Only available with Housing/Cable entry option B
- 3) Available with Adapter/Process temperature options 1, 2, and 4
- 4) Not in combination with Adapter/Process temperature options 2, 3, and 5
- 5) Not in combination with Adapter/Process temperature options 2, 4, and 5
- 6) Only available with Electronics options 4 and 5
- 9) Only valid with Rigid extension options less than 2 956 mm
- 10) Only available with Approval options A, B, C, H, N, V
Note: when selecting a Rigid option, extension coating must match the process connection coating type.
- 11) Not in combination with Rigid Extension options ECTFE Coated Probes B0 ... B5
- 12) Listed Certificates are not available with all configurations please contact factory for more information
- 13) Not available with Electric options 0, 1, 3, 4, 5, 6, and Housing/Protection/Cable option V
- 14) Available with Housing/Protection/Cable option V
- 15) Approval option P is not available with PFA and ECTFE coating options
- 16) Only available for 316L extensions
- 17) Only available with Approval options A, B, C, N, Q, T, V
- 18) Only available with Approval option A

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

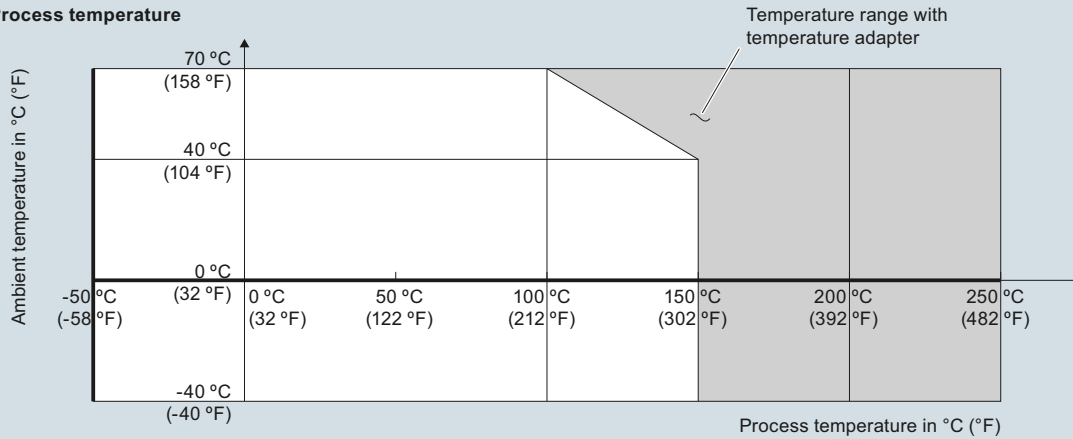
Options



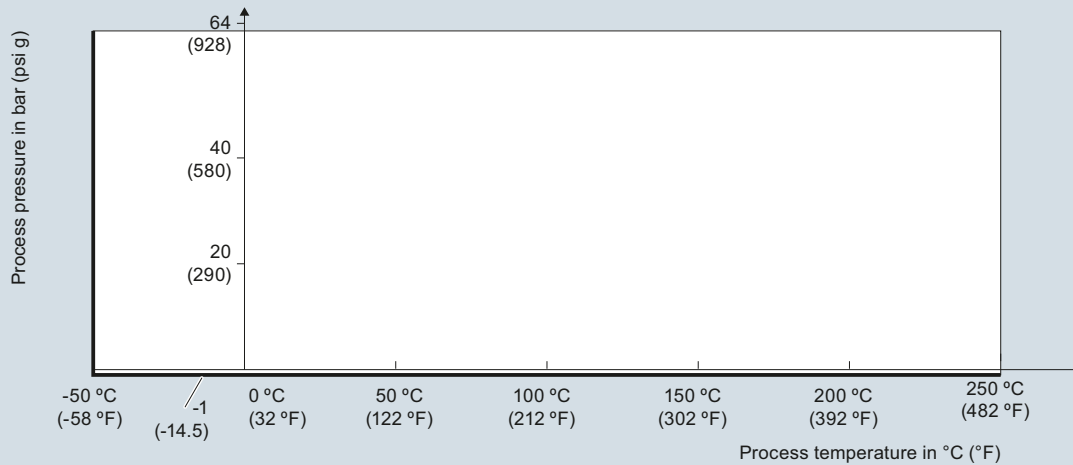
SITRANS LVL200 welded socket and lock fitting, dimensions in mm (inch)

Characteristic curves

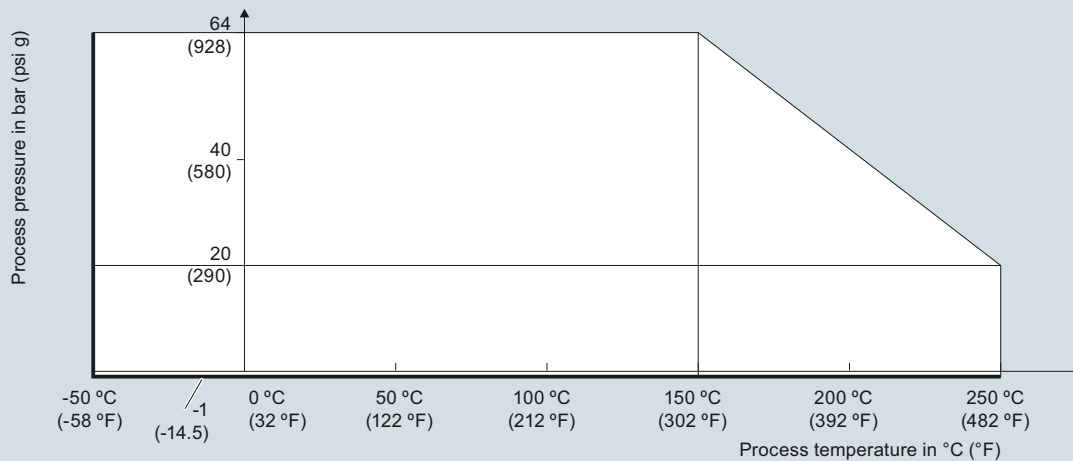
Ambient/Process temperature



Process pressure with switch position 0.7 g/cm³ (mode switch)



Process pressure with switch position 0.5 g/cm³ (mode switch)



SITRANS LVL200 process pressure/process temperature/ambient temperature derating curves

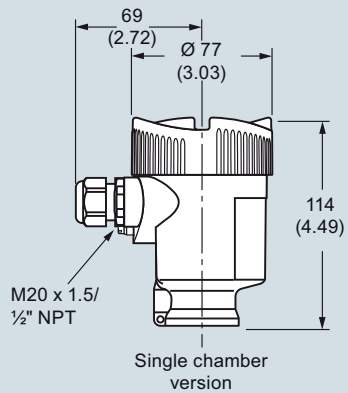
Level Measurement

Point level measurement - Vibrating switches

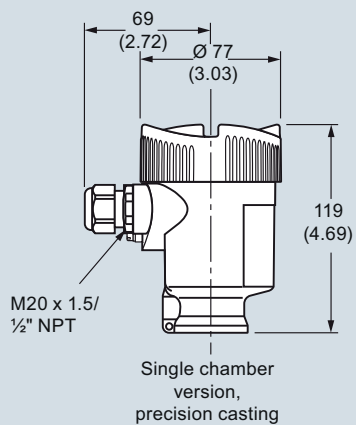
SITRANS LVL200

Dimensional drawings

SITRANS LVL200 plastic housing

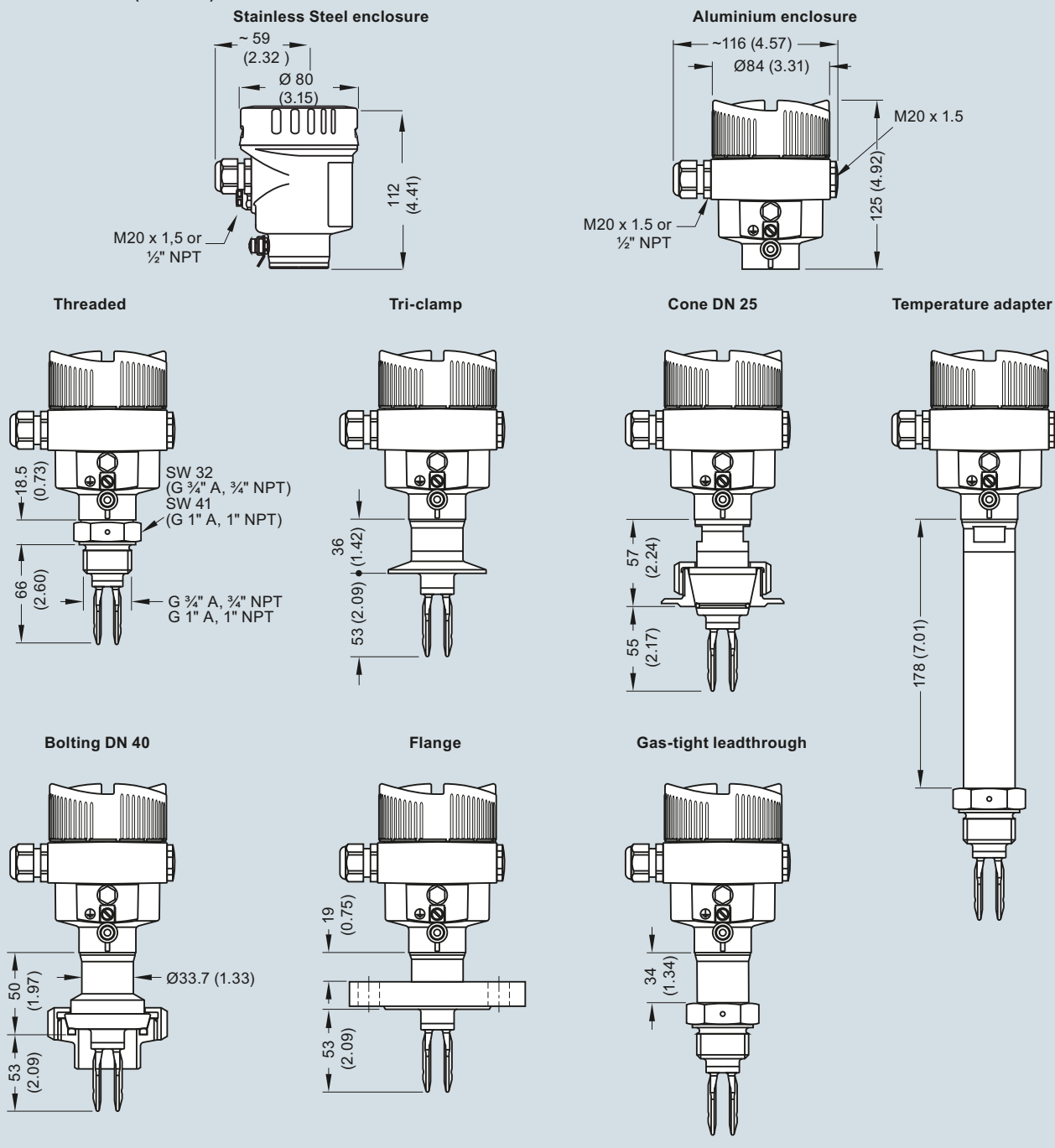


SITRANS LVL200 stainless steel housing



SITRANS LVL200 housing, dimensions in mm (inch)

SITRANS LVL200 (Standard)



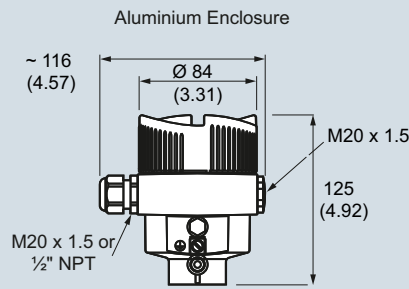
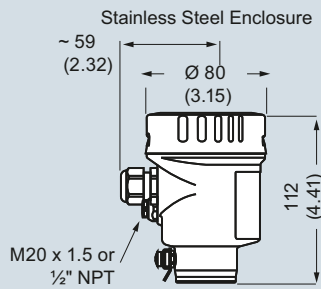
SITRANS LVL200 (standard), dimensions in mm (inch)

Level Measurement

Point level measurement - Vibrating switches

SITRANS LVL200

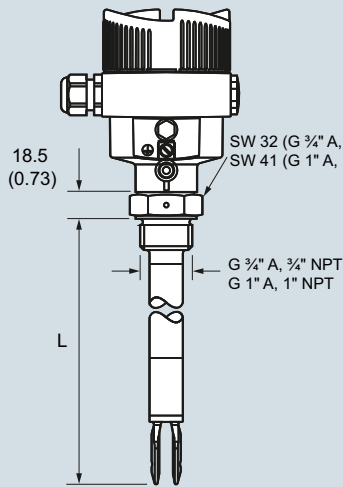
SITRANS LVL200 (Extended)



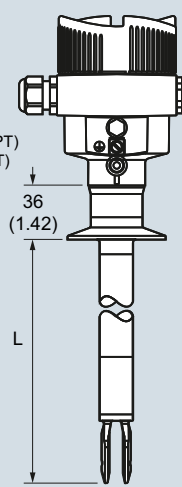
Sensor length (L)

316L, Alloy C22 (2.4602)	80 ... 6 000 mm (3.15 ... 236.2 inch)
Enamelled	80 ... 1 500 mm (3.15 ... 59.06 inch)
316L, ECTFE coated	80 ... 3 000 mm (3.15 ... 118.1 inch)
316L, PFA coated	80 ... 4 000 mm (3.15 ... 157.5 inch)

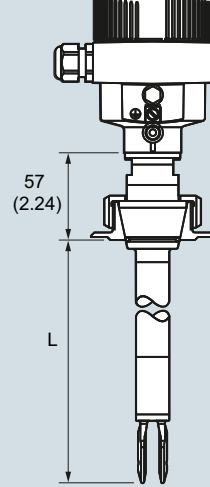
Threaded



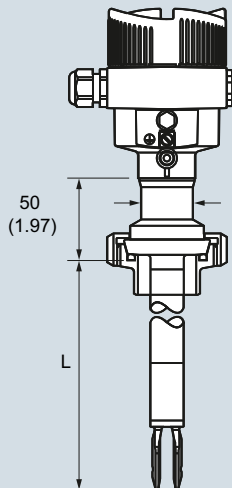
Tri-clamp



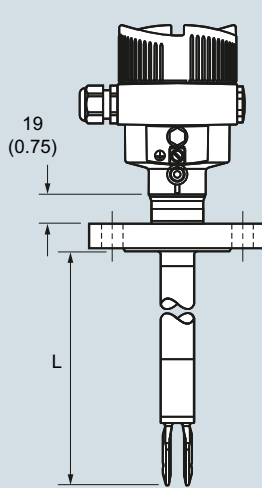
Cone DN 25



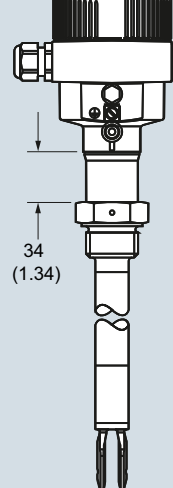
Bolting DN 40



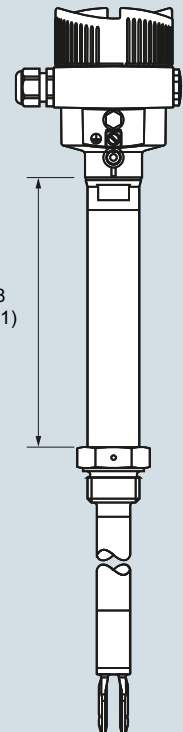
Flanged



Gas-tight leadthrough



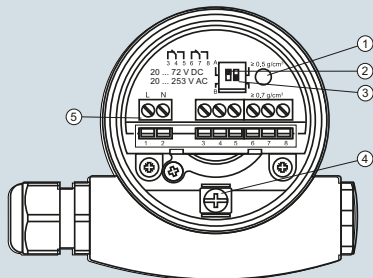
Temperature adapter



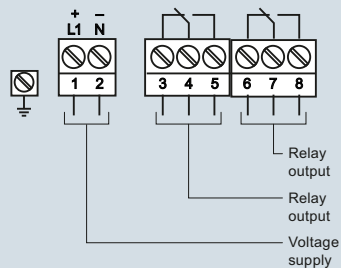
SITRANS LVL200 (extended), dimensions in mm (inch)

Schematics

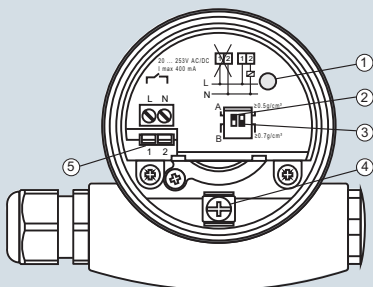
Relay (DPDT)



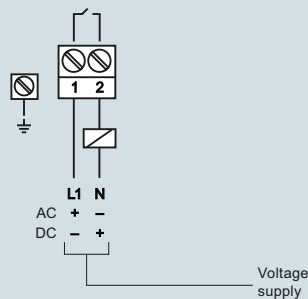
- | | |
|---|---|
| ① | Control lamp |
| ② | DIL switch for characteristics reversal |
| ③ | DIL switch for sensitivity adjustment |
| ④ | Ground terminal |
| ⑤ | Connection terminals |



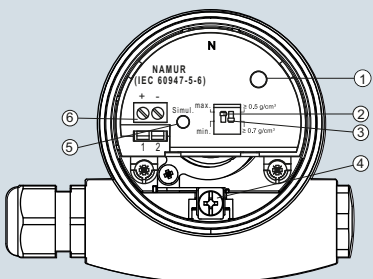
Contactless



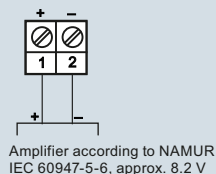
- | | |
|---|---|
| ① | Control lamp |
| ② | DIL switch for mode adjustment |
| ③ | DIL switch for switching point adaptation |
| ④ | Ground terminal |
| ⑤ | Connection terminals |



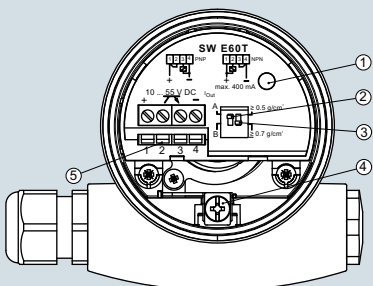
NAMUR



- | | |
|---|---|
| ① | Control lamp |
| ② | DIL switch for characteristics reversal |
| ③ | DIL switch for sensitivity adjustment |
| ④ | Ground terminal |
| ⑤ | Simulation key |
| ⑥ | Connection terminals |

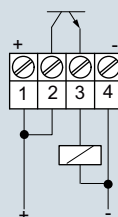


Transistor (NPN/PNP)

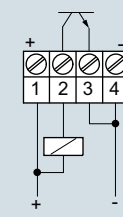


- | | |
|---|--------------------------------|
| ① | Control lamp |
| ② | DIL switch for mode adjustment |
| ③ | DIL switch for switching point |
| ④ | Ground terminal |
| ⑤ | Connection terminals |

PNP action



NPN action



SITRANS LVL200 connections