Level measurement

Point level measurement – Vibrating switches

SITRANS LVL200

Overview

SITRANS LVL200 is a standard vibrating level switch for use 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

Application

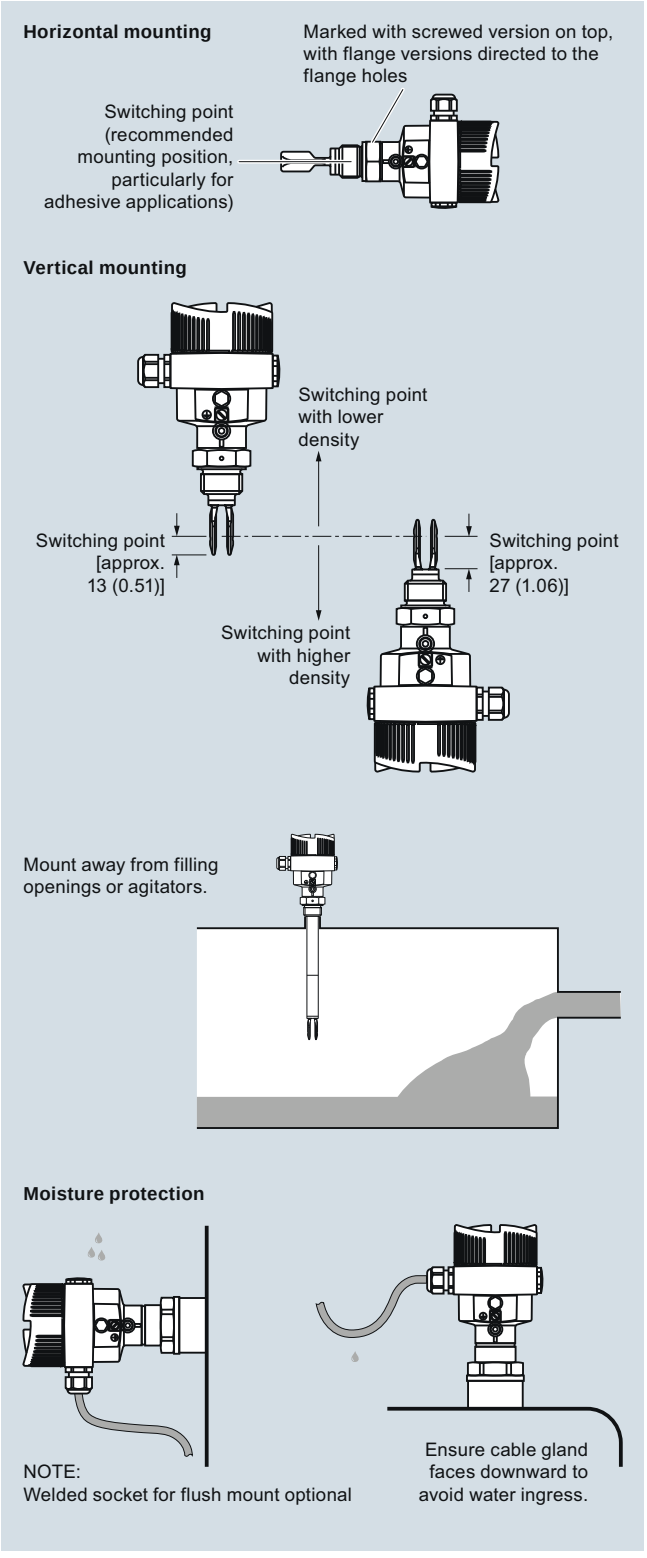
SITRANS LVL200 is a level switch designed for industrial use in all areas of process technology and can be used with liquids and slurries. With a tuning fork insertion length of only 40 mm (1.57 inch), SITRANS LVL200 can be mounted in small pipes and applications with confined space. The LVL200 can be used to measure products with a minimum density of > 0.5 g/cm³ (0.018 lb/in³). 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, overfill, and dry run protection

Configuration



SITRANS LVL200 installation, dimensions in mm (inch)

Technical specifications

Mode of operation	
Measuring principle	Vibrating point level switch
Input	
Measured variable	High and low and demand (via mode switch)
Output	
Output options	• Relay output (DPDT), 2 floating SPDTs • Contactless electronic switch • 2 wire Namur signal output
Measuring Accuracy	
Repeatability	0.1 mm (0.004 inch)
Hysteresis	Approx. 2 mm (0.08 inch) with vertical installation
Switching delay	Approx. 500 ms (on/off)
Frequency	Approx. 1 200 Hz
Rated operating conditions	
Installation conditions	
• Location	Indoor/outdoor
Ambient conditions	
• Ambient temperature	-40 ... +70 °C (-40 ... +158 °F)
• Installation category	III
• 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/cm³ (0.025 ... 0.09 lb/in³); 0.5 ... 2.5 g/cm³ (0.018 ... 0.09 lb/in³) by switching over
Design	
Material	
• Enclosure	Aluminum die-cast AlSi10Mg, powder-coated, basis: Polyester stainless steel housing, electropolished 316L
• Tuning fork	316L (1.4404 or 1.4435), Hastelloy
• Extension tube [ø 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	Klingersil C-4400
Process connection	
• Pipe thread, cylindrical (ISO 228 T1)	G ¾" A, G 1" A
• Pipe thread, tapered	¾" NPT, 1" NPT, 1½" NPT
• Flanges	DIN from DN 25, ANSI from 1"
• Hygienic fittings	Bolting DN 40 PN 40, 1, 1½, 2, 2½" Tri-Clamp PN 10, conus DN 25 PN 40, Tuchenhagen Varivent DN 50 PN 10, SMS

Degree of protection	Type 4X/NEMA 4X/IP66/IP67
Conduit entry	• 1 x M20x1.5 (cable: ø5 ... 9 mm), 1 x blind stopper M20x1.5; attached 1 x M20x1.5 cable entry • 1 x ½" NPT cable entry, 1 x blind stopper ½" NPT, 1 x ½" NPT cable entry • 1x M12x1; 1 x blind stopper M20x1.5
Weight	
• Device weight (dependent on process fitting)	Approx. 0.8 ... 4 kg (0.18 ... 8.82 lb)
• Tube extension (extended version)	Approx. 920 g/m (10 oz/ft)
Power supply	
Supply voltage	
• Relay DPDT	20 ... 253 V AC, 50/60 Hz, 20 ... 72 V DC [at U>60 V DC
• Contactless	20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
• 2 wire NAMUR	
Operating voltage (characteristics according to standard) for connection to an amplifier according to NAMUR	IEC 60947-5-6, approx. 8.2 V Off-load voltage U_0 approx. 8.2 V Short-circuit current I_U approx. 8.2 mA
Power consumption	1 ... 8 VA AC, approx. 1.3 W DC
• Relay DPDT	1 ... 8 VA AC, approx. 1.3 W DC
• Contactless	Domestic current requirement approx. 3 mA (via load circuit) Load current - 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)
• 2 wire Namur	Current consumption - Falling characteristics ≥ 2.6 mA uncovered/≤ 0.6 mA covered - ≤ 0.6 mA uncovered/≥ 2.6 mA covered - Failure message ≤ 0.6 mA
Certificates and approvals	• 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)]

Point level measurement – Vibrating switches

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Selection and Ordering data	Article No.
SITRANS LVL200, Standard	**7ML5746-**
Compact vibrating level switch for use 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
Electronics	
Contactless electronic switch 20...250 V AC/DC	1
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC	2
NAMUR signal[1]	4
Approvals	
Without approvals	A
Overfill protection (WHG)	B
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + WHG [2]	C
ATEX II 1/2G, 2G EEx d IIC T6 + WHG [3]	D
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + shipping approvals[2]	E
ATEX II 1/2G, 2G EEx d IIC T6 + shipping approvals[3]	F
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + ATEX II 1/2 D IP6X T[2]	G
IECEx Ex ia IIC T6[2]	H
Shipping approvals	K
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G [2)4]	N
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G[3)4]	P
FM (NI) Class I, Div. 2, Groups A, B, C, D[4]	Q
IECEx d IIC T6...T2 Ga/Gb	R
CSA(XP)CL I, II, III DIV 1,Groups A,,B, C, D, E, F, G	S
CSA(NI)CL I, II, III, DIV 2, Groups A, B, C, D, E, F, G	T
BR-Ex d IIC T6...T2	U
CSA(IS)CL I, II, III DIV 1, Groups A, B, C, D, E, F, G	V
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/Monel	A 0 4
Thread G¾" A, PN 64/Hastelloy	A 0 5
Thread ¾" NPT, PN 64/Hastelloy	A 0 6
Thread G1" A, PN 64/316L	A 0 7
Thread G1" A, PN 64/316L ECTFE coated MB1982[5]	A 0 8
Thread G1" A, PN 64/316L PFA coated[5]	A 1 0
Thread G1" A, PN 64/Monel	A 1 1
Thread G1" A, PN 64 / 316L Ra<0.8µm	A 1 2
Thread G1" A, PN 64/316L Ra < 0.8 µm	A 1 3
Thread 1" NPT, PN 64/316L[5]	A 1 4
Thread 1" NPT, PN 64/316L ECTFE coatedMB1982[5]	A 1 5
Thread 1" NPT, PN 64/316L PFA-coated	A 1 6
Thread 1" NPT, PN 64/Monel	A 1 7
Thread 1" NPT, PN 64/316L Ra < 0.8 µm	A 1 8
Thread G1" A, PN 64/Hastelloy	A 2 0
Thread G1½" A, PN 64/316L	A 2 1
Thread G1½" A, PN 64/316L Ra<0,8µm	A 2 2
Thread G1½" A, PN 64/Hastelloy	A 2 3
Thread 1" NPT, PN 64/Hastelloy	A 2 4
Thread 1½" NPT, PN 64/316L	A 2 5
Thread 1½" NPT, PN 64/316L Ra<0,8µm	A 2 6
Thread 1½" NPT, PN 64/Hastelloy	A 2 7
Thread G2" A, PN 64/316L	A 2 8
Thread M27x1.5, PN 64/316L	A 3 0
Conus DN 25, PN 40/316L Ra < 0.3 µm	A 3 1
Conus DN 25, PN 40/316L Ra < 0.8 µm	A 3 2
Conus DN 25, PN 40/ECTFE (ZB3033)[5]	A 3 3
Conus M52, PN 40/316L	A 3 4
Conus M52, PN 40/316L Ra < 0.3 µm	A 3 5

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Conus M52, PN 40/316L Ra < 0.8 µm	A 3 6
Tri-Clamp 1", PN 16/316L Ra < 0.3 µm	A 3 7
Tri-Clamp 1", PN 16/Hastelloy	A 3 8
Tri-Clamp 1", PN 16/316L Ra < 0.8 µm	A 4 0
Tri-Clamp 1½", PN 16/316L Ra < 0.3 µm	A4 1
Tri-Clamp 1½", PN 16/Hastelloy	A 4 2
Tri-Clamp 1½", PN 16/316L Ra < 0.8 µm	A 4 3
Tri-Clamp 2", PN 16/316L Ra < 0.3 µm	A 4 4
Tri-Clamp 2", PN 16/Hastelloy	A 4 5
Tri-Clamp 2", PN 16/316L Ra < 0.8 µm	A 4 6
Tri-Clamp 2½", PN 10/316L Ra < 0.3 µm	A 4 7
Tri-Clamp 2½", PN 10/316L Ra < 0.8 µm	A 4 8
Tri-Clamp 3", PN 10/316L Ra < 0.3 µm	A 5 0
Tri-Clamp 3", PN 10/316L Ra < 0.8 µm	A 5 1
Bolting DN 32, PN 40 DIN11851/316L Ra < 0.3 µm	A 5 2
Bolting DN 32, PN 40 DIN11851/316L Ra < 0.8 µm	A 5 3
Bolting DN 25, PN 40 DIN11851/316L Ra < 0.3 µm	A 5 4
Bolting DN 25, PN 40 DIN11851/316L Ra < 0.8 µm	A 5 5
Bolting DN 40, PN 40 DIN11851/316L Ra < 0.3 µm	A 5 6
Bolting DN 40, PN 40 DIN11851/316L Ra < 0.8 µm	A 5 7
Bolting DN 40, PN 40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 5 8
Bolting DN 50, PN 25 DIN11851/316L Ra < 0.3 µm	A 6 0
Bolting DN 50, PN 25 DIN11851/316L Ra < 0.8 µm	A 6 1
Bolting DN 50, PN 25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A 6 2
Hygienic w. compr. nut F40, PN 25/316L	A 6 3
Hygienic w. compr. nut F40, PN 25/316L Ra < 0.3 µm	A 6 4
Hygienic w. compr. nut F40, PN 25/316L Ra < 0.8 µm	A 6 5
Varivent N50-40/316L Ra < 0.3 µm	A 6 6
Varivent N50-40/316L Ra < 0.8 µm	A 6 7
Varivent N125/100/316L Ra < 0.8 µm	A 6 8
DRD flange, PN 40/316L ZB3007	A 7 0
SMS DN 38/316L Ra < 0.8 µm[5]	A 7 1
SMS DN 51, PN 6/316L Ra < 0.8 µm[5]	A 7 2
Swagelok VCR screwing ZG2579, PN 64/316L	A 7 3
Neumo biocontrol size 25, PN 16/316L Ra < 0.8 µm	A 7 4
Neumo biocontrol size 50, PN 16/316L Ra < 0.8 µm[5]	A 7 5
Neumo biocontrol size 65, PN 16/316L Ra < 0.8 µm	A 7 6
Neumo biocontrol size 80, PN 16/316L Ra < 0.8 µm	A 7 7
SÜDMO DN 50, PN 10/316L Ra<0,8µm	A 7 8
Small flange DN 25, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 0
Small flange DN 40, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 1
Ingold connection, PN 16/316L Ra < 0.8 µm	A 8 2
Ingold connection, PN 16/Hastelloy	A 8 3
Terminal DN 33.7 PN 40 DIN11864-3-A-/316L BN2 Ra < 0.8 µm[5]	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[5]	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/Hastelloy	B 0 0
Flange DN 25, PN 40 Form C, DIN 2501/ECTFE[5]	B 0 1
Flange DN 25, PN 40 Form C, DIN 2501/PFA[5]	B 0 2
Flange DN 25, PN 40 Form C, DIN 2501/Enamelled	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

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Flange DN 25, PN 40 Form N, DIN 2501/316L	**B 0 6**
Flange DN 25, PN 40 Form N, DIN 2501/Hastelloy	**B 0 7**
Flange DN 25, PN 40 Form N, DIN 2501/Monel 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[5]	**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[5]	**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/Hastelloy	**B 1 6**
Flange DN 40, PN 40 Form C, DIN 2501/ECTFE[5]	**B 1 7**
Flange DN 40, PN 40 Form C, DIN 2501/PFA[5]	**B 1 8**
Flange DN 40, PN 40 Form C, DIN 2501/ Enamelled[6]	**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/Hastelloy	**B 2 6**
Flange DN 50, PN 40 Form C, DIN 2501/ECTFE[5]	**B 2 7**
Flange DN 50, PN 40 Form C, DIN 2501/ ECTFE (ZB3108)[5]	**B 2 8**
Flange DN 50, PN 40 Form C, DIN 2501/PFA[5]	**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/Hastelloy	**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/Hastelloy	**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/Hastelloy	**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/Hastelloy	**B 4 7**
Flange DN 65, PN 40 Form C, DIN 2501/ECTFE[5]	**B 4 8**
Flange DN 65, PN 40 Form C, DIN 2501/PFA[5]	**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/ Hastelloy	**B 5 4**
Flange DN 80, PN 40 Form C, DIN 2501/ECTFE[5]	**B 5 5**
Flange DN 80, PN 40 Form C, DIN 2501/PFA[5]	**B 5 6**
Flange DN 80, PN 40 Form C, DIN 2501/ Enamelled[6]	**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/Hastelloy	**B 6 3**
Flange DN 100, PN 16 Form C, DIN 2501/ECTFE[5]	**B 6 4**
Flange DN 100, PN 16 Form C, DIN 2501/PFA[5]	**B 6 5**
Flange DN 100, PN 16 Form C, DIN 2501/ Enamelled[6]	**B 6 6**
Flange DN 100, PN 16 Form D, DIN 2501/316L	**B 6 7**

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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[5]	**B 7 2**
Flange DN 100, PN 40 Form C, DIN 2501/PFA[5]	**B 7 3**
Flange DN 100, PN 40 Form C, DIN 2501/ Enamelled[6]	**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/Hastelloy	**B 8 6**
Flange DN 150, PN 16 Form C, DIN 2501/ECTFE[5]	**B 8 7**
Flange DN 150, PN 16 Form C, DIN 2501/PFA[5]	**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/Hastelloy	**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[5]	**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/Hastelloy	**C 0 8**
Flange DN 25, PN 40 Form B1, EN/ 316L/ PFA[5]	**C 1 0**
Flange DN 25, PN 40 Form B1, EN 1092-1/ Enamelled [6]	**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**
Flange DN 40, PN 40 Form B1, EN 1092-1/PFA[5]	**C 1 7**
Flange DN 40, PN 40 Form B2, EN/316L	**C 1 8**
Flange DN 50, PN 40 Form B1, EN/316L	**C 2 0**
Flange DN 50, PN 40 Form B1, EN 1092-1/Hastelloy	**C 2 1**
Flange DN 50, PN 40 Form B1, EN 1092-1/ Monel ZB2977	**C 2 2**
Flange DN 50, PN 40 Form B1, EN 1092-1/ECTFE[5]	**C 2 3**
Flange DN 50, PN 40 Form B1, EN/ 316L/PFA[5]	**C 2 4**
Flange DN 50, PN 40 Form B1, EN 1092-1/ Enamelled[6]	**C 2 5**
Flange DN 50, PN 40 Form C, EN 1092-1/316L	**C 2 6**
Flange DN 50, PN 40 Form D, EN/316L	**C 2 7**
Flange DN 50, PN 40 Form D, EN 1092-1/Hastelloy	**C 2 8**
Flange DN 50, PN 40 Form B2, EN 1092-1/316L	**C 3 0**
Flange DN 50, PN 40 Form E, EN 1092-1/316L	**C 3 1**
Flange DN 80, PN 40 Form B1, EN 1092-1/316L	**C 3 2**
Flange DN 80, PN 40 Form B1, EN 1092-1/Hastelloy	**C 3 3**
Flange DN 80, PN 40 Form B1, EN 1092-1/ECTFE[5]	**C 3 4**
Flange DN 80, PN 40 Form B1, EN 1092-1/ Enamelled[6]	**C 3 5**
Flange DN 80, PN 40 Form B2, EN 1092-1/316L	**C 3 6**
Flange DN 100, PN 16 Form B1, EN 1092-1/316L	**C 3 7**
Flange DN 100, PN 16 Form B1, EN 1092-1/ Hastelloy	**C 3 8**

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Flange DN 100, PN 16 Form B1, EN 1092-1/ Enamelled[6]	**C 4 0**
Flange DN 100, PN 40 Form B1, EN 1092-1/316L	**C 4 1**
Flange DN 100, PN 40 Form B1, EN 1092-1/ Enamelled[6]	**C 4 2**
Flange DN 100, PN 40 Form C, EN 1092-1/316L	**C 4 3**
Flange DN 100, PN 63 Form B2, EN 1092-1/316L	**C 4 4**
Flange DN 150, PN 16 Form B1, EN 1092-1/316L	**C 4 5**
Flange DN 150, PN 16 Form B1, EN 1092-1/PFA[5]	**C 4 6**
Flange DN 150, PN 40 Form B1, EN 1092-1/316L	**C 4 7**
Flange DN 150, PN 40 Form B1, EN 1092-1/ ECTFE[5]	**C 4 8**
Flange DN 150, PN 40 Form B2, EN 1092-1/316L	**C 5 0**
Flange 1" 150 lb ANSI B16.5/316L	**C 5 1**
Flange 1" 150 lb RF, ANSI B16.5/Hastelloy	**C 5 2**
Flange 1" 150 lb RF, ANSI B16.5/Monel ZB2977	**C 5 3**
Flange 1" 150 lb RF, ANSI B16.5/ECTFE[5]	**C 5 4**
Flange 1" 150 lb RF, ANSI B16.5/PFA[5]	**C 5 5**
Flange 1" 150 lb RF, ANSI B16.5/Enamelled[6]	**C 5 6**
Flange 1" 300 lb RF, ANSI B16.5/316L	**C 5 7**
Flange 1" 300 lb RF, ANSI B16.5/ECTFE[5]	**C 5 8**
Flange 1" 600 lb RF, ANSI B16.5/316L	**C 6 0**
Flange 1½" 150 lb RF, ANSI B16.5/316L	**C 6 1**
Flange 1½" 150 lb RF, ANSI B16.5/Hastelloy	**C 6 2**
Flange 1½" 150 lb RF, ANSI B16.5/ECTFE[5]	**C 6 3**
Flange 1½" 150 lb RF, ANSI B16.5/PFA[5]	**C 6 4**
Flange 1½" 150 lb RF, ANSI B16.5 Enamelled[6]	**C 6 5**
Flange 1½" 150 lb FF, ANSI B16.5/ECTFE[5]	**C 6 6**
Flange 1½" 300 lb RF, ANSI B16.5/316L	**C 6 7**
Flange 1½" 300 lb RF, ANSI B16.5/Monel ZB2977	**C 6 8**
Flange 1½" 300 lb RF, ANSI B16.5/ECTFE[6]	**C 7 0**
Flange 1½" 600 lb RF, ANSI B16.5/316L	**C 7 1**
Flange 2" 150 lb RF, ANSI B16.5/316L	**C 7 2**
Flange 2" 150 lb RF, ANSI B16.5/Hastelloy	**C 7 3**
Flange 2" 150 lb RF, ANSI B16.5/Monel ZB2977	**C 7 4**
Flange 2" 150 lb RF, ANSI B16.5/ECTFE[5]	**C 7 5**
Flange 2" 150 lb RF, ANSI B16.5/PFA[5]	**C 7 6**
Flange 2" 150 lb RF, ANSI B16.5/Enamelled[6]	**C 7 7**
Flange 2" 150 lb FF, ANSI B16.5/316L	**C 7 8**
Flange 2" 150 lb FF, ANSI B16.5/ECTF[5]	**C 8 0**
Flange 2" 150 lb SG (small groove), ANSI B16.5/316L	**C 8 1**
Flange 2" 300 lb RF, ANSI B16.5/316L	**C 8 2**
Flange 2" 300 lb RF, ANSI B16.5/Hastelloy	**C 8 3**
Flange 2" 300 lb RF, ANSI B16.5/ECTFE[5]	**C 8 5**
Flange 2" 300 lb RF, ANSI B16.5/PFA[5]	**C 8 6**
Flange 2" 300 lb RF, ANSI B16.5 Enamelled[6]	**C 8 7**
Flange 2" 300 lb RJF, ANSI B16.5/316L	**C 8 8**
Flange 2" 300 lb ST, ANSI B16.5/316L	**D 0 0**
Flange 2" 300 lb LG (large groove), ANSI B16.5/316L	**D 0 1**
Flange 2" 300 lb LT, ANSI B16.5/316L	**D 0 2**
Flange 2" 600 lb RF, ANSI B16.5/316L	**D 0 3**
Flange 2" 600 lb RF, ANSI B16.5/Monel ZB2977	**D 0 4**
Flange 2" 600 lb RF, ANSI B16.5/ECTFE[5]	**D 0 5**
Flange 2" 600 lb RJF, ANSI B16.5/316L	**D 0 6**
Flange 2" 600 lb LG, ANSI B16.5/316L	**D 0 7**
Flange 2" 900 lb RJF, ANSI B16.5/316L	**D 0 8**
Flange 2½" 150 lb RF, ANSI B16.5/316L	**D 1 0**
Flange 2½" 300 lb RF, ANSI B16.5/316L	**D 1 1**

Selection and Ordering data	Article No.
SITRANS LVL200, Standard	**7ML5746-**
Compact vibrating level switch for use 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**
Flange 3" 150 lb RF, ANSI B16.5/316L	**D 1 2**
Flange 3" 150 lb RF, ANSI B16.5/Hastelloy	**D 1 3**
Flange 3" 150 lb RF, ANSI B16.5/ECTFE[5]	**D 1 4**
Flange 3" 150 lb RF, ANSI B16.5/PFA[5]	**D 1 5**
Flange 3" 150 lb RF, ANSI B16.5/Enamelled[6]	**D 1 6**
Flange 3" 150 lb FF, ANSI B16.5/316L	**D 1 7**
Flange 3" 150 lb FF, ANSI B16.5/ECTFE[5]	**D 1 8**
Flange 3" 150 lb FF, ANSI B16.5/PFA[5]	**D 2 0**
Flange 3" 300 lb RF, ANSI B16.5/316L	**D 2 1**
Flange 3" 300 lb RF, ANSI B16.5/Hastelloy	**D 2 2**
Flange 3" 300 lb RF, ANSI B16.5/ECTFE[5]	**D 2 3**
Flange 3" 300 lb RF, ANSI B16.5/PFA[5]	**D 2 4**
Flange 3" 300 lb RF, ANSI B16.5/Enamelled[6]	**D 2 5**
Flange 3" 600 lb RF, ANSI B16.5/316L	**D 2 6**
Flange 3½" 150 lb RF, ANSI B16.5/316L	**D 2 7**
Flange 3½" 150 lb RF, ANSI B16.5/ECTFE[5]	**D 2 8**
Flange 4" 150 lb RF, ANSI B16.5/316L	**D 3 0**
Flange 4" 150 lb RF, ANSI B16.5/Hastelloy	**D 3 1**
Flange 4" 150 lb RF, ANSI B16.5/ECTFE[5]	**D 3 2**
Flange 4" 150 lb RF, ANSI B16.5/PFA[5]	**D 3 3**
Flange 4" 150 lb RF, ANSI B16.5/Enamelled[6]	**D 3 4**
Flange 4" 150 lb LT, ANSI B16.5/316L	**D 3 5**
Flange 4" 300 lb RF, ANSI B16.5/316L	**D 3 6**
Flange 4" 300 lb RF, ANSI B16.5/Hastelloy	**D 3 7**
Flange 4" 300 lb RF, ANSI B16.5/ECTFE[5]	**D 3 8**
Flange 4" 300 lb RJF, ANSI B16.5/316L	**D 4 0**
Flange 4" 300 lb LG, ANSI B16.5/316L	**D 4 1**
Flange 4" 300 lb LT, ANSI B16.5/316L	**D 4 2**
Flange 4" 600 lb RF, ANSI B16.5/316L	**D 4 3**
Flange 4" 600 lb RJF, ANSI B16.5/316L	**D 4 4**
Flange 6" 150 lb RF, ANSI B16.5/316L	**D 4 5**
Flange 6" 150 lb RF, ANSI B16.5/Hastelloy	**D 4 6**
Flange 6" 150 lb RF, ANSI B16.5/ECTFE[5]	**D 4 7**
Flange 6" 150 lb RF, ANSI B16.5/PFA[5]	**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[5]	**D 5 3**
Flange 1" BS.10 Table E/316L	**D 5 4**
Flange 1" BS.10 Table E/PFA[5]	**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[5]	**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**
Adapter/Process temperature	
Without adapter/-50 ... +150 °C (-58 ... +302 °F)	**1**
With adapter/-50 ... +200 °C (-58 ... +392 °F)[7]	**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**

Selection and Ordering data		Article No.
SITRANS LVL200, Standard Compact vibrating level switch for use 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**
Housing/ Cable entry		
Aluminium IP66/IP67/M20x1.5	⬟	**A**
Aluminium IP66/IP67/½" NPT	⬟	**B**
316L stainless steel (electropolished) IP66/IP67/M20X1.5[8)9)]		**C**
316L stainless steel (electropolished) IP66/IP67/½" NPT[8)9)]		**D**

1) Available with Adapter/Process temperature options 1, 3, 4, and 5 only
2) Available with Electronics option 4 only
3) Available with Adapter/Process temperature options 1 and 3 only
4) Available with Housing/Cable entry option B only
5) Available with Adapter/Process temperature options 1 and 4 only
6) Available with Adapter/Process temperature options 1, 2, and 4 only
7) Available with enamelled Process connection options only
8) Available with Approval options A, B, C only
9) Not available with SIL/IEC61508 Certificate of conformity (SIL-2 min. and max. detection)

⬟ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ⬟. For details see page 9/5 in the appendix.

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. 16 characters add in plain text	**Y17**
Identification Label (measurement loop) Foil: max. 16 characters add in plain text	**Y18**
Acceptance test certificate 3.1 NACE MR 0775 for material EN10204	**D07**
Acceptance test certificate 3.1 for instrument EN10204	**C12**
Acceptance test Certificate 2.2 for material EN10204	**C15**
Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511	**C20**
Additional Operating Instructions	Article No.
LVL200 (DPDT Relay)	
• English	**7ML1998-5KR01**
• French	**7ML1998-5KR11**
• Spanish	**7ML1998-5KR21**
• German	**7ML1998-5KR31**
LVL200 (Contactless electronic switch)	
• English	**7ML1998-5KQ01**
• French	**7ML1998-5KQ11**
• Spanish	**7ML1998-5KQ21**
• German	**7ML1998-5KQ31**
Electronics module LVL200 Relay	
• English	**7ML1998-5LS01**
• French	**7ML1998-5LS11**
• Spanish	**7ML1998-5LS21**
• German This device is shipped with the Siemens Milltronics manual DVD containing the Operating Instructions library.	**7ML1998-5LS31**
Spare Parts and Accessories	
Electronics module SITRANS LVL200 Relay	**7ML1830-1NC**
Electronics module SITRANS LVL200 Contactless	**7ML1930-6AA**
LVL200 Threaded Welded Socket	
• G¾" A/316L with FKM Seal	**7ML1930-1EE**
• G1" A/316L with FKM Seal	**7ML1930-1EF**
• M27x1.5/316L with FKM Seal	**7ML1930-1EG**
• G¾" A/316L with EPDM Seal	**7ML1930-1EH**
• G1" A/316L with EPDM Seal	**7ML1930-1EJ**
• M27x1.5/316L with EPDM Seal	**7ML1930-1EK**

Point level measurement – Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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-** ☐☐☐☐☐ - ☐☐☐☐
Electronics	
Contactless electronic switch 20...250 V AC/DC	1
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC	2
NAMUR signal[1]	4
Approvals	
Without approvals	A
Overfill protection (WHG)	B
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + WHG[2]	C
ATEX II 1/2G, 2G EEx d IIC T6 + WHG[3][4]	D
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + shipping approvals[2]	E
ATEX II 1/2G, 2G EEx d IIC T6 + shipping approvals[3][4]	F
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + ATEX II 1/2D IP6X T[2]	G
IECEx Ex ia IIC T6[2]	H
Shipping approvals	K
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[2][5]	N
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G[3][4][5]	P
FM (NI) Class I, Div. 2, Groups A, B, C, D[5]	Q
IECEx d IIC T6...T2 Ga/Gb[4]	R
CSA(XP)CL I,II,III Div. 1,Groups A, B, C, D, E, F, G...T2[4] Ga/Gb	S
CSA(NI)CL I,II,III, Div. 2,Groups A, B, C, D, E, F, G	T
BR-Ex d IIC T6...T2	U
CSA(IS)CL I, II, III Div. 1, Groups A, B, C, D, E, F, G	V
Process connection	
Thread G¾" A, PN 64/316L	A00
Thread G¾" A, PN 64/316L Ra < 0.8 µm	A01
Thread ¾" NPT, PN 64/316L	A02
Thread ¾" NPT, PN 64/316L Ra < 0.8 µm	A03
Thread ¾" NPT, PN 64/Monel	A04
Thread G¾" A, PN 64/Hastelloy	A05
Thread ¾" NPT, PN 64/Hastelloy	A06
Thread G1" A, PN 64/316L	A07
Thread G1" A, PN 64/316L ECTFE coated MB1982[6]	A08
Thread G1" A, PN 64/316L PFA coated[6]	A10
Thread G1" A, PN 64/Monel	A11
Thread G1" A, PN 64/316L Ra < 0.8 µm	A13
Thread 1" NPT, PN 64/316L	A14
Thread 1" NPT, PN 64/316L ECTFE coated MB1982[6]	A15
Thread 1" NPT, PN 64/316L PFA coated[6]	A16
Thread 1" NPT, PN 64/Monel	A17
Thread 1" NPT, PN 64/316L Ra < 0.8 µm	A18
Thread G1" A, PN 64/Hastelloy	A20
Thread G1½" A, PN 64/316L	A21
Thread G1½" A, PN 64/316L Ra <0.8 µm	A22
Thread G1½" A, PN 64/Hastelloy	A23
Thread 1" NPT, PN 64/Hastelloy	A24
Thread 1½" NPT, PN 64/316L	A25
Thread 1½" NPT, PN 64/316L Ra< 0.8 µm	A26
Thread 1½" NPT, PN 64/Hastelloy	A27
Thread G2" A, PN 64/316L	A28
Thread M27x1.5 PN 64/316L	A30
Cyl. socket/316Ti/1.4581 ECTFE coated ZB2984[6]	A31
Conus DN 25 PN 40/316L Ra < 0.3 µm	A32
Conus DN 25 PN 40/316L Ra < 0.8 µm.	A33

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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-** ☐☐☐☐☐ - ☐☐☐☐
Conus DN 25 PN 40/ECTFE (ZB3033)[6]	A34
Conus M52 PN 40/316L	A35
Conus M52 PN 40/316L Ra < 0.3 µm	A36
Conus M52 PN 40/316L Ra < 0.8 µm	A37
Tri-Clamp 1" PN 16/316L Ra < 0.3 µm	A38
Tri-Clamp 1" PN 16/Hastelloy	A40
Tri-Clamp 1" PN 16/316L Ra < 0.8 µm	A41
Tri-Clamp 1½" PN 16/316L Ra < 0.3 µm	A42
Tri-Clamp 1½" PN 16/Hastelloy	A43
Tri-Clamp 1½" PN 16/316L Ra < 0.8 µm	A44
Tri-Clamp 2" PN 16/316L Ra < 0.3 µm	A45
Tri-Clamp 2" PN 16/Hastelloy	A46
Tri-Clamp 2" PN 16/316L Ra < 0.8 µm	A47
Tri-Clamp 2½" PN 10/316L Ra < 0.3 µm	A48
Tri-Clamp 2½" PN 10/316L Ra < 0.8 µm	A50
Tri-Clamp 3" PN 10/316L Ra < 0.3 µm	A51
Tri-Clamp 3" PN 10/316L Ra < 0.8 µm	A52
Bolting DN 32 PN 40 DIN11851/316L Ra < 0.3 µm	A53
Bolting DN 32 PN 40 DIN11851/316L Ra < 0.8 µm	A54
Bolting DN 25 PN 40 DIN11851/316L Ra < 0.3 µm	A55
Bolting DN 25 PN 40 DIN11851/316L Ra < 0.8 µm	A56
Bolting DN 40 PN 40 DIN11851/316L Ra < 0.3 µm	A57
Bolting DN 40 PN 40 DIN11851/316L Ra < 0.8 µm	A58
Bolting DN 40 PN 40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A60
Bolting DN 50 PN 25 DIN11851/316L Ra < 0.3 µm	A61
Bolting DN 50 PN 25 DIN11851/316L Ra < 0.8 µm	A62
Bolting DN 50 PN 25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052	A63
Hygienic w.compr.nut F40 PN 25/316L	A64
Hygienic w.compr.nut F40 PN 25/316L Ra < 0.3 µm	A65
Hygienic w.compr.nut F40 PN 25/316L Ra < 0.8 µm	A66
Varivent N50-40/316L Ra < 0.3 µm	A67
Varivent N50-40/316L Ra < 0.8 µm	A68
Varivent N125/100/316L Ra < 0.8 µm	A70
DRD flange PN 40/316L ZB3007	A71
SMS DN 38/316L Ra < 0.8 µm[6]	A72
SMS DN 51 PN 6/316L Ra < 0.8 µm[6]	A73
Swagelok VCR screwing ZG2579 PN 64/316L	A74
Neumo biocontrol size 25 PN 16/316L Ra < 0.8 µm	A75
Neumo biocontrol size 50 PN 16/316L Ra < 0.8 µm	A76
Neumo biocontrol size 65 PN 16/316L Ra < 0.8 µm	A77
Neumo biocontrol size 80 PN 16/316L Ra < 0.8 µm	A78
SÜDMO DN 50 PN 10/316L Ra < 0.8 µm	A80
Small flange DN 25 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A81
Small flange DN 40 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A82
Ingold connection PN 16/316L Ra < 0.8 µm	A83
Terminal DN 33.7 PN 40 DIN 11864-3-A-/316L BN2 Ra < 0.8 µm	A84
Hygienic fl. DN 50 PN 16 DIN 11864-2-A-/316L Ra < 0.8 µm	A85
Flange DN 25 PN 6 Form C, DIN 2501/316L	A86
Flange DN 25 PN 6 Form C, DIN 2501/PFA[6]	A87
Flange DN 25 PN 40 Form C, DIN 2501/316L	A88
Flange DN 25 PN 40 Form C, DIN 2501/Hastelloy	B00
Flange DN 25 PN 40 Form C, DIN 2501/ECTFE[6]	B01
Flange DN 25 PN 40 Form C, DIN 2501/PFA[6]	B02
Flange DN 25 PN 40 Form D, DIN 2501/316L	B03

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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 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/Hastelloy	**B 0 6**
Flange DN 25 PN 40 Form N, DIN 2501/Monel 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[6]	**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[6]	**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/Hastelloy	**B 1 5**
Flange DN 40 PN 40 Form C, DIN 2501/ECTFE[6]	**B 1 6**
Flange DN 40 PN 40 Form C, DIN 2501/PFA[6]	**B 1 7**
Flange DN 40 PN 40 Form C, DIN 2501/Enamelled[7]	**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/Hastelloy	**B 2 5**
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE[6]	**B 2 6**
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE (ZB3108)[6]	**B 2 7**
Flange DN 50 PN 40 Form C, DIN 2501/PFA[6]	**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/Hastelloy	**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/Hastelloy	**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/Hastelloy	**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/Hastelloy	**B 4 6**
Flange DN 65 PN 40 Form C, DIN 2501/ECTFE[6]	**B 4 7**
Flange DN 65 PN 40 Form C, DIN 2501/PFA[6]	**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**
Flange DN 80 PN 40 Form C, DIN 2501/Hastelloy	**B 5 3**
Flange DN 80 PN 40 Form C, DIN 2501/ECTFE[6]	**B 5 4**
Flange DN 80 PN 40 Form C, DIN 2501/PFA[6]	**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/Hastelloy	**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/Hastelloy	**B 6 1**
Flange DN 100 PN 16 Form C, DIN 2501/ECTFE[6]	**B 6 2**
Flange DN 100 PN 16 Form C, DIN 2501/PFA[6]	**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**

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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 100 PN 40 Form C, DIN 2501/316L	**B 6 7**
Flange DN 100 PN 40 Form C, DIN 2501/ECTFE[6]	**B 6 8**
Flange DN 100 PN 40 Form C, DIN 2501/PFA[6]	**B 7 0**
Flange DN 100 PN 40 Form C, DIN 2501/Enamelled[7]	**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/Hastelloy	**B 8 3**
Flange DN 150 PN 16 Form C, DIN 2501/ECTFE[6]	**B 8 4**
Flange DN 150 PN 16 Form C, DIN 2501/PFA[6]	**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/Hastelloy	**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[6]	**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/Hastelloy	**C 0 5**
Flange DN 25 PN 40 Form B1, EN/316L/PFA[6]	**C 0 6**
Flange DN 25 PN 40 Form B1, EN 1092-1/Enamelled[7]	**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[6]	**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/Hastelloy	**C 1 7**
Flange DN 50 PN 40 Form B1,EN 1092-1/ Monel ZB2977	**C 1 8**
Flange DN 50 PN 40 Form B1, EN 1092-1/ECTFE[6]	**C 2 0**
Flange DN 50 PN 40 Form B1, EN/316L/PFA[6]	**C 2 1**
Flange DN 50 PN 40 Form B1, EN 1092-1/Enamelled[7]	**C 2 2**
Flange DN 50 PN 40 Form C, EN 1092-1/316L	**C 2 3**
Flange DN 50 PN 40 Form D, EN/316L	**C 2 4**
Flange DN 50 PN 40 Form D, EN 1092-1/ Hastelloy	**C 2 5**
Flange DN 50 PN 40 Form B2, EN 1092-1/316L	**C 2 6**
Flange DN 50 PN 40 Form E, EN 1092-1/316L	**C 2 7**
Flange DN 80 PN 40 Form B1, EN 1092-1/316L	**C 2 8**
Flange DN 80 PN 40 Form B1, EN 1092-1/Hastelloy	**C 3 0**
Flange DN 80 PN 40 Form B1, EN 1092-1/ECTFE[6]	**C 3 1**
Flange DN 80 PN 40 Form B1, EN 1092-1/Enamelled[7]	**C 3 2**
Flange DN 80 PN 40 Form B2, EN 1092-1/316L	**C 3 3**
Flange DN 100 PN 16 Form B1, EN 1092-1/316L	**C 3 4**
Flange DN 100 PN 16 Form B1, EN 1092-1/ Hastelloy	**C 3 5**
Flange DN 100 PN 16 Form B1, EN 1092-1/Enamelled[7]	**C 3 6**

Point level measurement – Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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 100 PN 40 Form B1, EN 1092-1/316L	C 3 7
Flange DN 100 PN 40 Form B1, EN 1092-1/ Enamelled[7]	C 3 8
Flange DN 100 PN 40 Form C, EN 1092-1/316L	C 4 0
Flange DN 100 PN 63 Form B2, EN 1092-1/316L	C 4 1
Flange DN 150 PN 16 Form B1, EN 1092-1/316L	C 4 2
Flange DN 150 PN 16 Form B1, EN 1092-1/PFA[6]	C 4 3
Flange DN 150 PN 40 Form B1, EN 1092-1/316L	C 4 4
Flange DN 150 PN 40 Form B1, EN 1092-1/ ECTFE[6]	C 4 5
Flange DN 150 PN 40 Form B2, EN 1092-1/316L	C 4 6
Flange 1" 150 lb ANSI B16.5/316L	C 4 7
Flange 1"150 lb RF, ANSI B16.5/Hastelloy	C 4 8
Flange 1"150 lb RF, ANSI B16.5//Monel ZB2977	C 5 0
Flange 1" 150 lb RF, ANSI B16.5/ECTFE[6]	C 5 1
Flange 1"150 lb RF, ANSI B16.5/PFA[6]	C 5 2
Flange 1" 150 lb RF, ANSI B16.5/Enamelled[7]	C 5 3
Flange 1" 300 lb RF, ANSI B16.5/316L	C 5 4
Flange 1" 300 lb RF, ANSI B16.5/ECTFE[6]	C 5 5
Flange 1" 600 lb RF, ANSI B16.5/316L	C 5 6
Flange 1½" 150 lb RF, ANSI B16.5/316L	C 5 7
Flange 1½" 150 lb RF, ANSI B16.5/Hastelloy	C 5 8
Flange 1½" 150 lb RF, ANSI B16.5/ECTFE[6]	C 6 0
Flange 1½" 150 lb RF, ANSI B16.5/PFA[6]	C 6 1
Flange 1½" 150 lb RF, ANSI B16.5 Enamelled[7]	C 6 2
Flange 1½" 150 lb FF, ANSI B16.5/ECTFE[6]	C 6 3
Flange 1½" 300 lb RF, ANSI B16.5/316L	C 6 4
Flange 1½" 300 lb RF, ANSI B16.5//Monel ZB2977	C 6 5
Flange 1½" 300 lb RF, ANSI B16.5/ECTFE[6]	C 6 6
Flange 1½" 600 lb RF, ANSI B16.5/316L	C 6 7
Flange 2" 150 lb RF, ANSI B16.5/316L	C 6 8
Flange 2" 150 lb RF, ANSI B16.5/Hastelloy	C 7 0
Flange 2" 150 lb RF, ANSI B16.5//Monel ZB2977	C 7 1
Flange 2" 150 lb RF, ANSI B16.5/ECTFE[6]	C 7 2
Flange 2" 150 lb RF, ANSI B16.5/PFA[6]	C 7 3
Flange 2" 150 lb RF, ANSI B16.5/Enamelled[7]	C 7 4
Flange 2" 150 lb FF, ANSI B16.5/316L	C 7 5
Flange 2" 150 lb FF, ANSI B16.5/ECTFE[6]	C 7 6
Flange 2" 150 lb SG (small groove), ANSI B16.5/316L	C 7 7
Flange 2" 300 lb RF, ANSI B16.5/316L	C 7 8
Flange 2" 300 lb RF, ANSI B16.5/Hastelloy	C 8 0
Flange 2" 300 lb RF, ANSI B16.5/ECTFE[6]	C 8 2
Flange 2" 300 lb RF, ANSI B16.5/PFA[6]	C 8 3
Flange 2" 300 lb RF, ANSI B16.5 Enamelled[7]	C 8 4
Flange 2" 300 lb RJF, ANSI B16.5/316L	C 8 5
Flange 2" 300 lb ST, ANSI B16.5/316L	C 8 6
Flange 2" 300 lb LG (large groove), ANSI B16.5/316L	C 8 7
Flange 2" 300 lb LT, ANSI B16.5/316L	C 8 8
Flange 2" 600 lb RF, ANSI B16.5/316L	D 0 0
Flange 2" 600 lb RF, ANSI B16.5/Monel ZB2977	D 0 1
Flange 2" 600 lb RF, ANSI B16.5/ECTFE[6]	D 0 2
Flange 2" 600 lb RJF, ANSI B16.5/316L	D 0 3
Flange 2" 600 lb LG, ANSI B16.5/316L	D 0 4
Flange 2" 900 lb RJF, ANSI B16.5/316L	D 0 5
Flange 2½" 150 lb RF, ANSI B16.5/316L	D 0 6
Flange 2½" 300 lb RF, ANSI B16.5/316L	D 0 7
Flange 3" 150 lb RF, ANSI B16.5/316L	D 0 8

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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 3" 150 lb RF, ANSI B16.5/Hastelloy	D 1 0
Flange 3" 150 lb RF, ANSI B16.5//Monel ZB2977	D 1 1
Flange 3" 150 lb RF, ANSI B16.5/ECTFE[6]	D 1 2
Flange 3" 150 lb RF, ANSI B16.5/PFA[6]	D 1 3
Flange 3" 150 lb RF, ANSI B16.5/Enamelled[7]	D 1 4
Flange 3" 150 lb FF, ANSI B16.5/316L	D 1 5
Flange 3" 150 lb FF, ANSI B16.5/ECTFE[6]	D 1 6
Flange 3" 150 lb FF, ANSI B16.5/PFA[6]	D 1 7
Flange 3" 300 lb RF, ANSI B16.5/316L	D 1 8
Flange 3" 300 lb RF, ANSI B16.5/Hastelloy	D 2 0
Flange 3" 300 lb RF, ANSI B16.5/ECTFE[6]	D 2 1
Flange 3" 300 lb RF, ANSI B16.5/PFA[6]	D 2 2
Flange 3" 300 lb RF, ANSI B16.5/Enamelled[7]	D 2 3
Flange 3" 600 lb RF, ANSI B16.5/316L	D 2 4
Flange 3½" 150 lb RF, ANSI B16.5/316L	D 2 5
Flange 3½" 150 lb RF, ANSI B16.5/ECTFE[6]	D 2 6
Flange 4" 150 lb RF, ANSI B16.5/316L	D 2 7
Flange 4" 150 lb RF, ANSI B16.5/Hastelloy	D 2 8
Flange 4" 150 lb RF, ANSI B16.5/ECTFE[6]	D 3 0
Flange 4" 150 lb RF, ANSI B16.5/PFA[6]	D 3 1
Flange 4" 150 lb RF, ANSI B16.5/Enamelled[7]	D 3 2
Flange 4" 150 lb LT, ANSI B16.5/316L	D 3 3
Flange 4" 300 lb RF, ANSI B16.5/316L	D 3 4
Flange 4" 300 lb RF, ANSI B16.5/Hastelloy	D 3 5
Flange 4" 300 lb RF, ANSI B16.5/ECTFE[6]	D 3 6
Flange 4" 300 lb RJF, ANSI B16.5/316L	D 3 7
Flange 4" 300 lb LG, ANSI B16.5/316L	D 3 8
Flange 4" 300 lb LT, ANSI B16.5/316L	D 4 0
Flange 4" 600 lb RF, ANSI B16.5/316L	D 4 1
Flange 4" 600 lb RJF, ANSI B16.5/316L	D 4 2
Flange 5" 150 lb RF, ANSI B16.5/316L	D 4 3
Flange 6" 150 lb RF, ANSI B16.5/316L	D 4 4
Flange 6" 150 lb RF, ANSI B16.5/Hastelloy	D 4 5
Flange 6" 150 lb RF, ANSI B16.5/ECTFE[6]	D 4 6
Flange 6" 150 lb RF, ANSI B16.5/PFA[6]	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[6]	D 5 2
Flange 1" BS.10 Table E/316L	D 5 3
Flange 1" BS.10 Table E/PFA[6]	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[6]	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

Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use 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-** ☐☐☐☐☐ - ☐☐☐☐
Adapter/Process temperature	
Without adapter/-50 ... +150 °C	1
With adapter/-50 ... +200 °C[8]	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	
Aluminium IP66/IP67/M20x1.5	A
Aluminium IP66/IP67/½" NPT	B
316L stainless steel (electropolished) IP66/IP67/M20X1.5[9][10]	C
316L stainless steel (electropolished) IP66/IP67/½" NPT[9][10]	D
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
Rigid Extension ECTFE coated[6]	
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[6]	
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
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

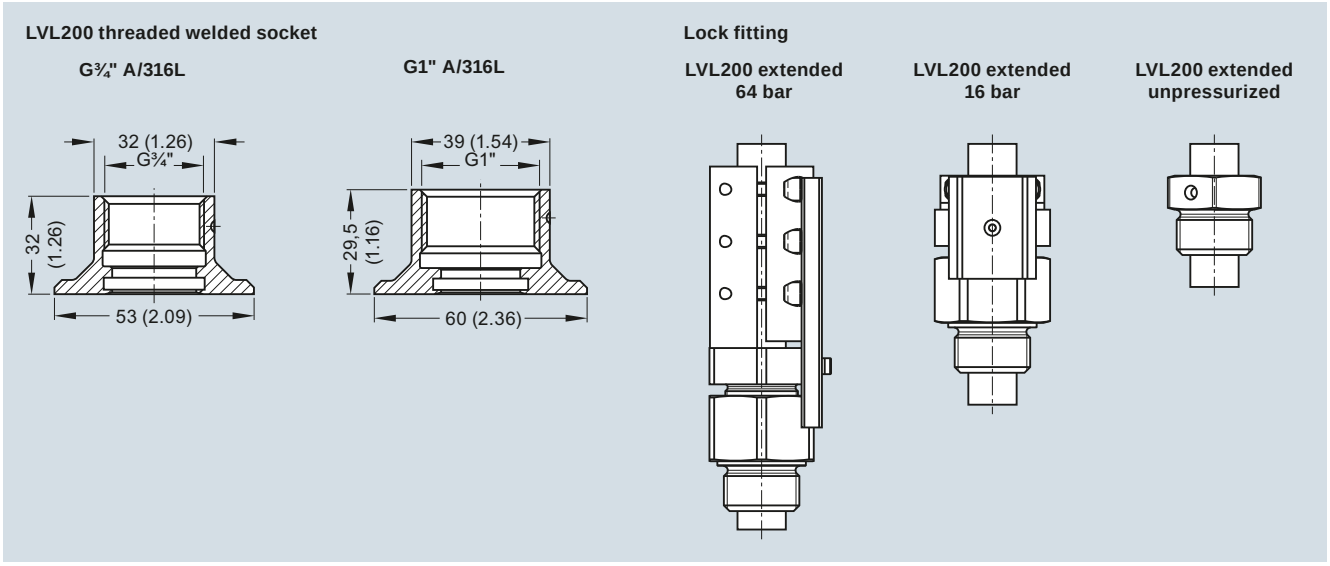
Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for use in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	**7ML5747-** ☐☐☐☐☐ - ☐☐☐☐
Rigid Extension Enamelled version[7]	
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 Hastelloy	
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 Monel	
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

1) Available with Adapter/Process temperature options 1, 3, 4, and 5 only
2) Available with Electronics option 4 only
3) Available with Adapter/Process temperature options 1 and 3 only
4) Extension length restricted to 2 956 mm
5) Available with Housing/Cable entry option B only
6) Available with Adapter/Process temperature options 1 and 4 only
7) Available with Adapter/Process temperature options 1, 2, and 4 only
8) Available with enamelled Process connection and Extension options only
9) Available with Approval options A, B, C only
10) Not available with SIL/IEC61508 Certificate of conformity (SIL-2 min. and max. detection)

SITRANS LVL200

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**
Enter the total insertion length in plain text description, max. 4 000 mm (157.48 inch)	**Y01**
Identification Label (measurement loop) stainless steel: max. 16 characters add in plain text	**Y17**
Identification Label (measurement loop) Foil: max. 16 characters add in plain text	**Y18**
Acceptance test certificate 3.1 NACE MR 0775 for material EN10204	**D07**
Acceptance test certificate 3.1 for instrument EN10204	**C12**
Acceptance test Certificate 2.2 for material EN10204	**C15**
Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511	**C20**
Additional Operating Instructions	Article No.
LVL200 Extended (DPDT Relay)	
• English	**7ML1998-5KW01**
• French	**7ML1998-5KW11**
• Spanish	**7ML1998-5KW21**
• German	**7ML1998-5KW31**
LVL200 (Contactless electronic switch)	
• English	**7ML1998-5KV01**
• French	**7ML1998-5KV11**
• Spanish	**7ML1998-5KV21**
• German	**7ML1998-5KV31**
Electronics module LVL200 Relay	
• English	**7ML1998-5LS01**
• French	**7ML1998-5LS11**
• Spanish	**7ML1998-5LS21**
• German This device is shipped with the Siemens Milltronics manual DVD containing the Operating Instructions library.	**7ML1998-5LS31**
Spare Parts and Accessories	
Electronics module SITRANS LVL200 Relay	**7ML1830-1NC**
Electronics module SITRANS LVL200 Contactless	**7ML1930-6AA**
Lock fitting, unpressurized, G1" A/316L	**7ML1930-1DQ**
Lock fitting, unpressurized, 1" NPT/316L	**7ML1930-1DR**
Lock fitting, unpressurized, G1 ...1/2" A/316L	**7ML1930-1DS**
Lock fitting, unpressurized, 1 ... 1/2" NPT/316L	**7ML1930-1DT**
Lock fitting, -1… 16 bar, G1" A/316L	**7ML1930-1DU**
Lock fitting, -1… 16 bar, 1" NPT/316L	**7ML1930-1DV**
Lock fitting, -1… 16 bar, G1 ... 1/2" A/316L	**7ML1930-1DW**
Lock fitting, -1… 16 bar, 1 ... 1/2" NPT/316L	**7ML1930-1DX**
Lock fitting, -1… 64 bar, G1" A/316L	**7ML1930-1EA**
Lock fitting, -1… 64 bar, 1" NPT/316L	**7ML1930-1EB**
Lock fitting, -1… 64 bar, G1 ... 1/2" A/316L	**7ML1930-1EC**
Lock fitting, -1… 64 bar, 1 ... 1/2" NPT/316L	**7ML1930-1ED**

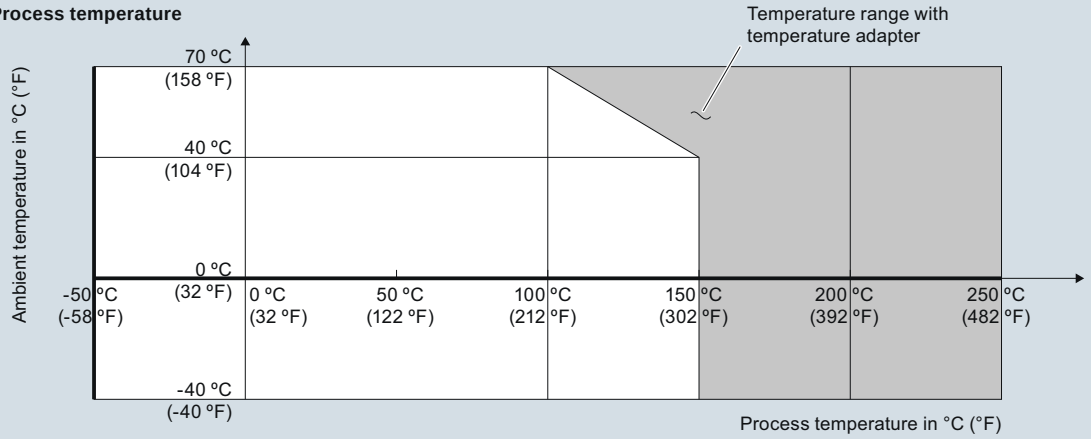
Options



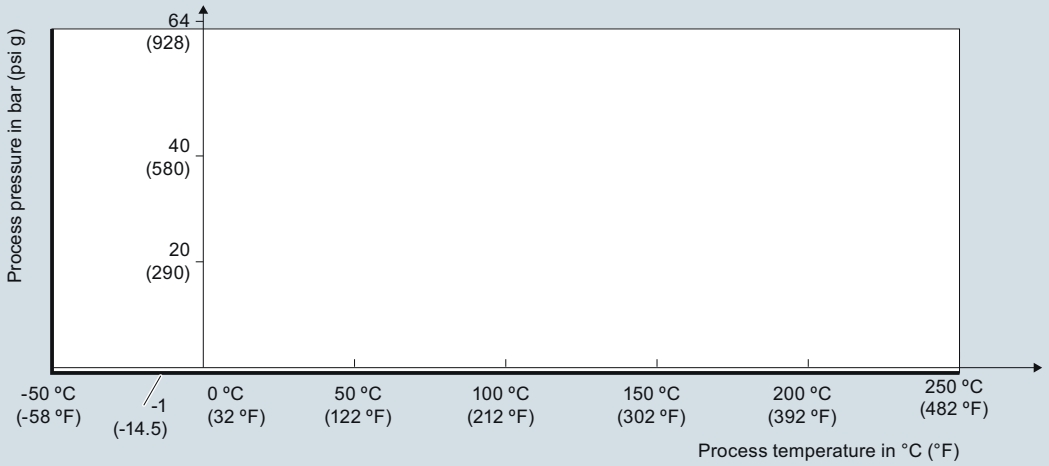
SITRANS LVL200 welded socket and lock fitting, dimensions in mm (inch)

Characteristic curves

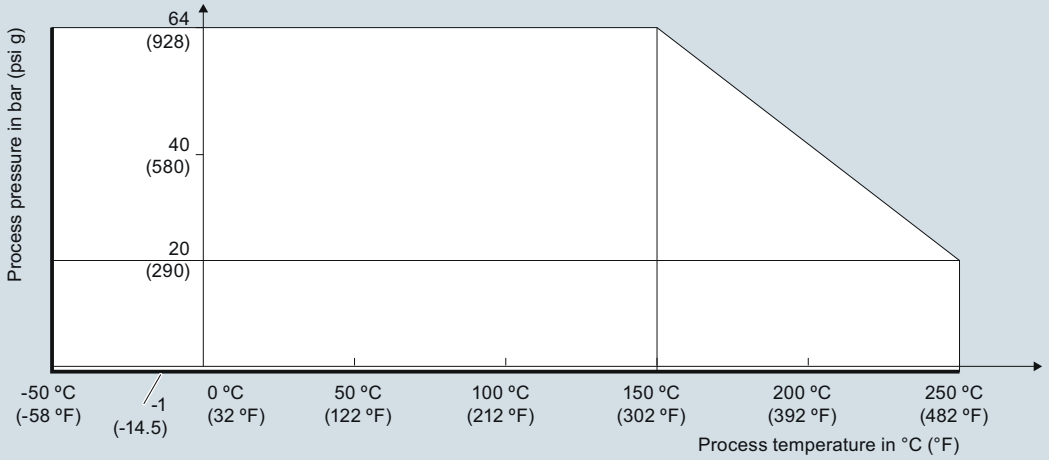
Ambient/Process temperature



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

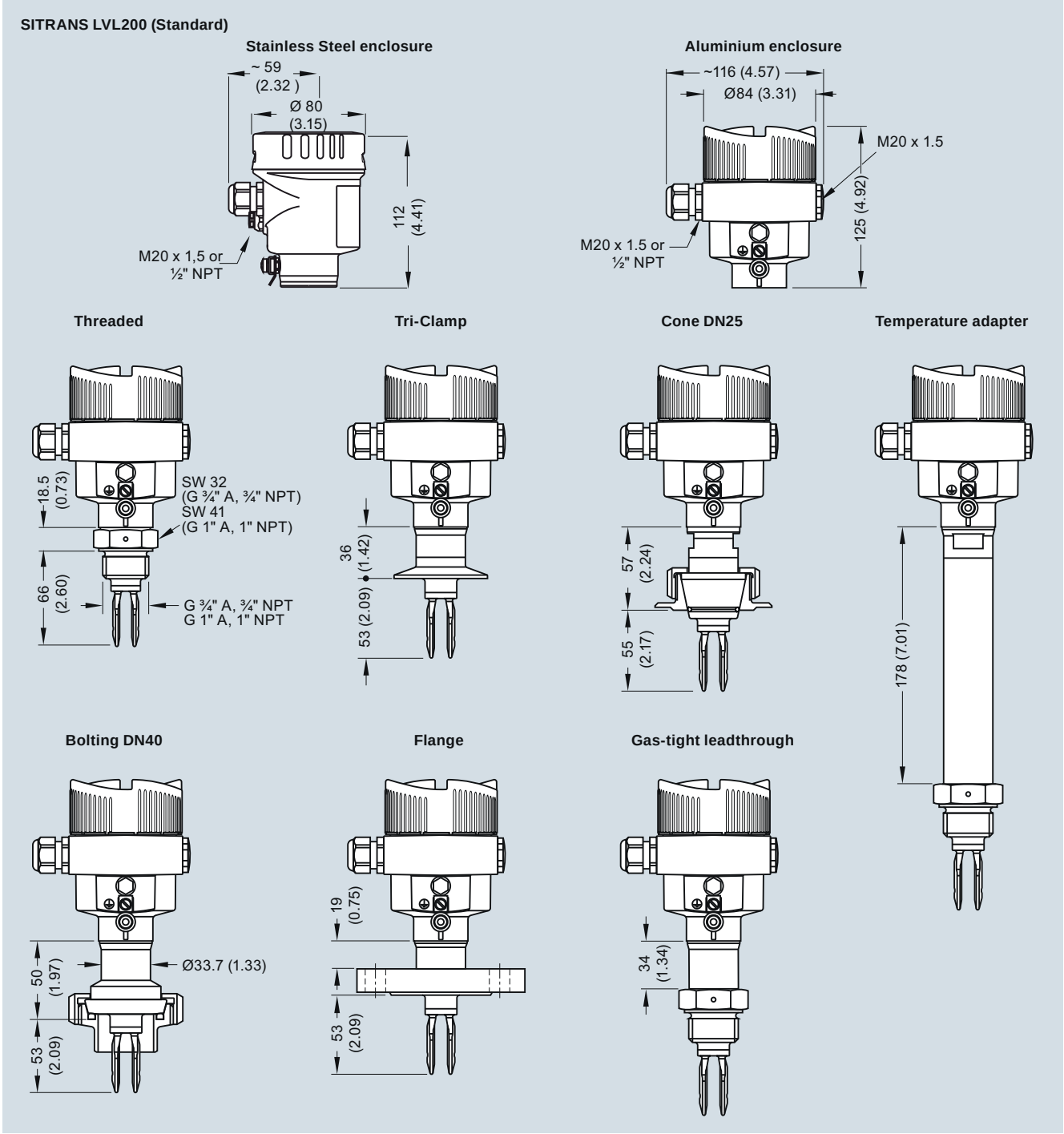


Process pressure with switch position 0.5 g/cm³ (mode switch)



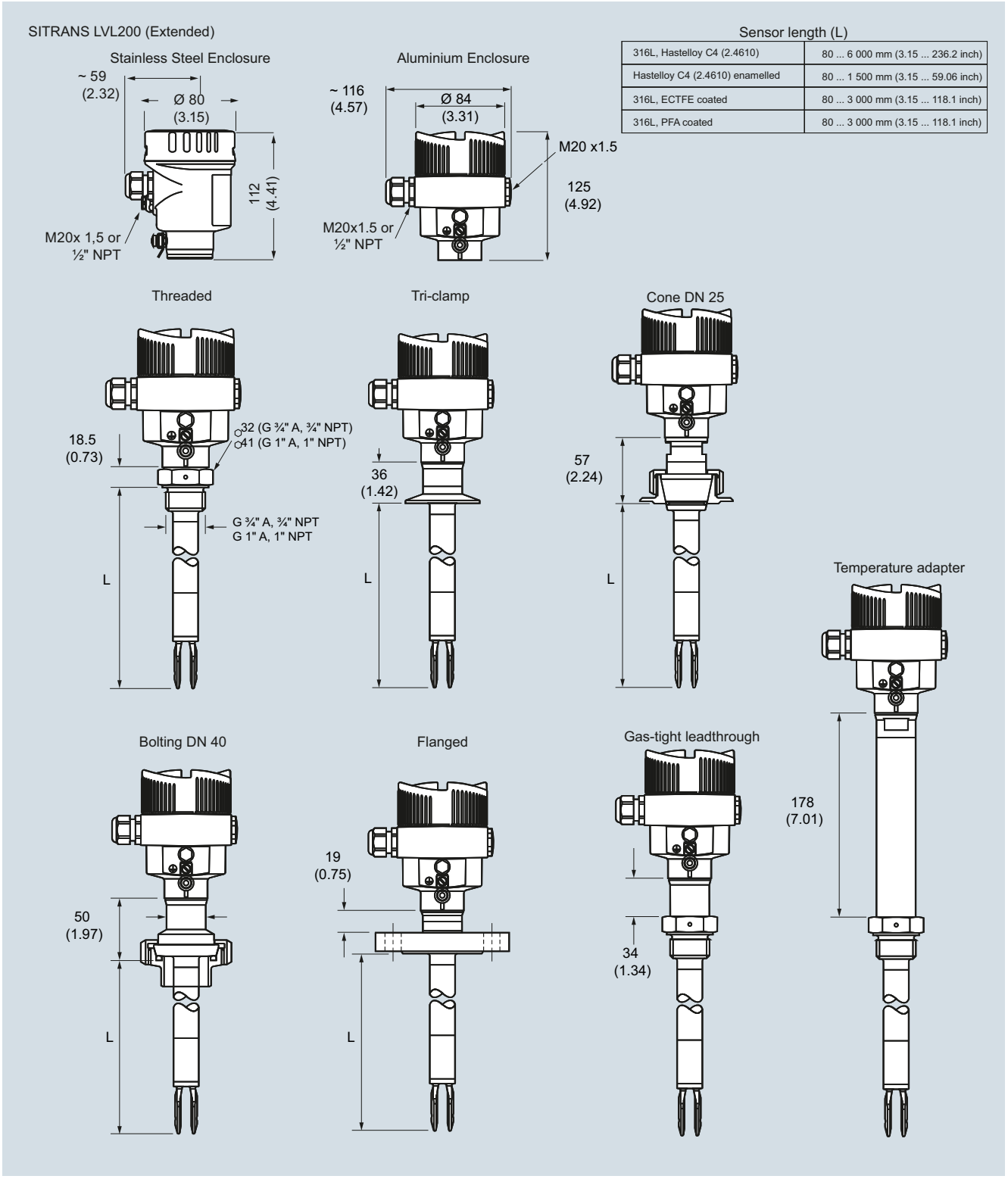
SITRANS LVL200 Process Pressure/Process Temperature/Ambient Temperature derating curves

Dimensional drawings



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

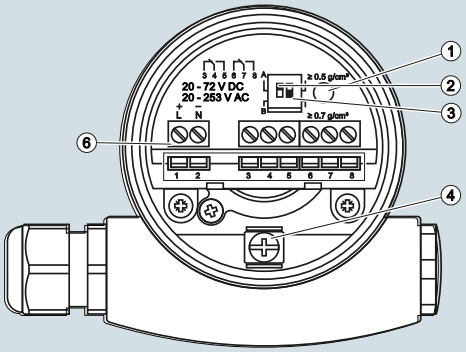
SITRANS LVL200



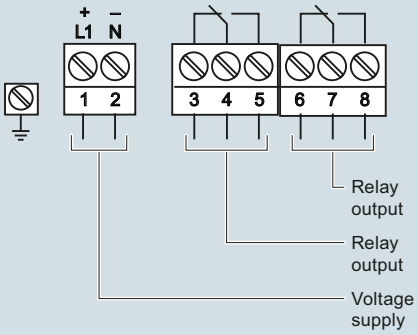
SITRANS LVL200 (Extended), dimensions in mm (inch)

Schematics

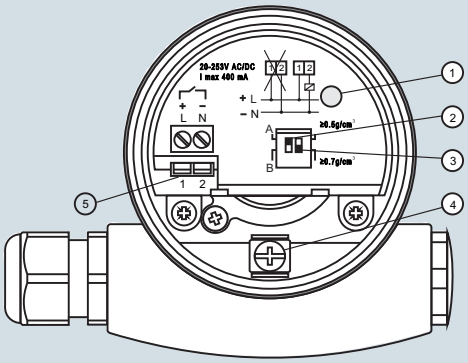
Relay (DPDT)



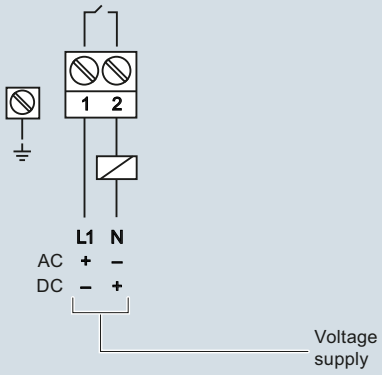
①	Control lamp
②	DIL switch for characteristics reversal
③	DIL switch for sensitivity adjustment
④	Ground terminal
⑤	Connection terminals



Contactless



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



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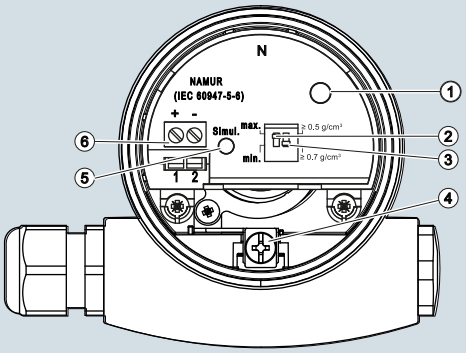
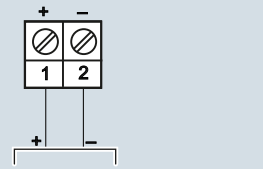


①	Control lamp
②	DIL switch for characteristics reversal
③	DIL switch for sensitivity adjustment
④	Ground terminal
⑤	Simulation key
⑥	Connection terminals



SITRANS LVL200 connections