

Level Measurement

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.

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Benefits

- Proven vibrating level switch technology for liquids
- Compact insertion length of 40 mm (1.57") for confined space applications
- Fault monitoring for corrosion, loss of vibration or line break to the piezo drive
- SIL-2 qualified for high level and dry run applications
- 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"), 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 lbs/in³). The LVL200 can be used in difficult conditions including turbulence, air bubbles, foam generation, buildup, or strong 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.

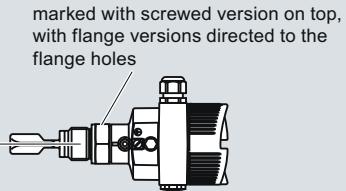
The tuning fork is piezoelectrically energized and vibrates at its mechanical resonance frequency of approx. 1200 Hz. The vibration frequency changes when the tuning fork is covered by the medium. This change is detected by the integrated oscillator and converted into a switching command. The integrated 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

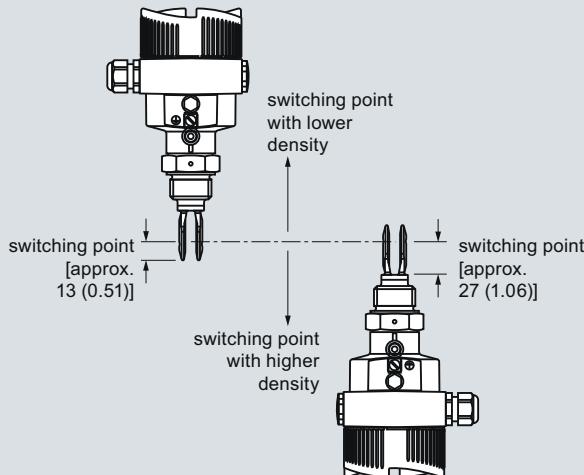
Configuration

Horizontal mounting

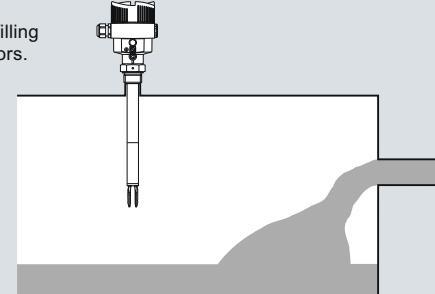
switching point
(recommended
mounting position,
particularly for
adhesive applications)



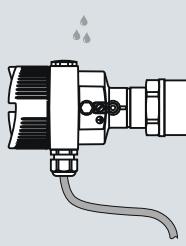
Vertical mounting



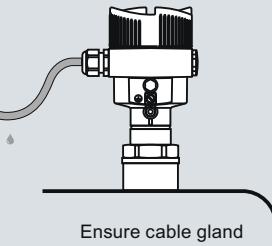
Mount away from filling
openings or agitators.



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)

Technical specifications

Mode of operation	Vibrating point level switch	Process connection	G ¾" A, G 1" A
Measuring principle		• Pipe thread, cylindrical (ISO 228 T1)	¾" NPT, 1" NPT, 1½" NPT
Input		• Pipe thread, tapered	DIN from DN25, ANSI from 1"
Measured variable	High and low and demand (via mode switch)	• Flanges	Bolting DN40 PN40, 1, 1½, 2, 2½"
Output		• Hygienic fittings	Tri-Clamp PN 10, conus DN25 PN 40, Tuchenhagen Varivent DN50 PN10, SMS
Output options	<ul style="list-style-type: none"> • Relay output (DPDT), 2 floating SPDTs • Contactless electronic switch 	Degree of protection	Type 4X/NEMA 4X/IP66/IP67
Measuring Accuracy		Conduit entry	<ul style="list-style-type: none"> • 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
Repeatability	0.1 mm (0.004")	Weight	approx. 0.8 ... 4 kg (0.18 ... 8.82 lbs)
Hysteresis	approx. 2 mm (0.08") with vertical installation	• Device weight (dependent on process fitting)	approx 920 g/m (10 oz/ft)
Switching delay	approx. 500 ms (on/off)	• Tube extension (extended version)	
Frequency	approx. 1200 Hz	Power supply	
Rated operating conditions		Supply voltage	20 ... 253 V AC, 50/60 Hz, 20 ... 72 V DC [at U>60 V DC, the ambient temperature can be max. +50 °C (+122 °F)]
Installation conditions	Indoor/outdoor	• Relay DPDT	- 20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
• Location		• Contactless	1 ... 8 VA (AC), approx. 1.3 W (DC)
Ambient conditions		Power consumption	1 ... 8 VA (AC), approx. 1.3 W (DC)
• Ambient temperature	-40 ... +70 °C (-40 ... +158 °F)	• Relay DPDT	Domestic current requirement approx. 3 mA (via load circuit)
• Installation category	III	• Contactless	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 ... 40 ms (not WHG specified)
• Pollution degree	2		
Medium conditions		Certificates and approvals	<ul style="list-style-type: none"> • CE, CSA • Overfill protection (WHG) • 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 • Shipping approvals: ABS, DNV, LR, RINA, GL, CCS • SIL/IEC61508 Declaration of Conformity [SIL-2 (overfill)]
• 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 lbs/in³); 0.5 ... 2.5 g/cm³ (0.018 ... 0.09 bs/in³) by switching over		
Design			
Material			
• Enclosure	Aluminum die-cast AlSi10Mg, powder-coated, basis: Polyester		
• Tuning fork	316L (1.4404 or 1.4435), Hastelloy		
• Extension tube [ø 21.3 mm (0.839")]	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		

Level Measurement

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Selection and Ordering data

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.

Electronics

Contactless electronic switch 20...250 V AC/DC
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC
NAMUR signal¹⁾

Approvals

Without approvals
Overfill protection (WHG)
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + WHG²⁾
ATEX II 1/2G, 2G EEx d IIC T6 + WHG³⁾
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + shipping approvals²⁾
ATEX II 1/2G, 2G EEx d IIC T6 + shipping approvals³⁾
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + ATEX II 1/2 D IP6X T²⁾
Shipping approvals
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP)
Class II, III, Div. 1, Groups E, F, G³⁾
FM (NI) Class I, Div. 2, Groups A, B, C, D⁴⁾
IECEx d IIC T6...T2 Ga/Gb
CSA(XP)CL I,II,III DIV 1,GP A B C D E F G
CSA(NI)CL I,II,III, DIV 2,GP A B C D E F G

Process connection

Thread G $\frac{3}{4}$ " A, PN64/316L
Thread G $\frac{3}{4}$ " A, PN64/316L Ra < 0.8 µm
Thread $\frac{3}{4}$ " NPT, PN64/316L
Thread $\frac{3}{4}$ " NPT, PN64/316L Ra < 0.8 µm
Thread $\frac{3}{4}$ " NPT, PN64/Monel
Thread G $\frac{3}{4}$ " A, PN64/Hastelloy
Thread $\frac{3}{4}$ " NPT, PN64/Hastelloy
Thread G1" A, PN64/316L
Thread G1" A, PN64/316L ECTFE coated MB1982⁵⁾
Thread G1" A, PN64/316L PFA coated⁵⁾
Thread G1" A, PN64/Monel
Thread G1" A, PN64/316L Ra < 0.8 µm
Thread 1" NPT, PN64/316L
Thread 1" NPT, PN64/316L ECTFE coated MB1982⁵⁾
Thread 1" NPT, PN64/316L PFA-coated⁵⁾
Thread 1" NPT, PN64/Monel
Thread 1" NPT, PN64/316L Ra < 0.8 µm
Thread G1" A, PN64/Hastelloy
Thread G1 $\frac{1}{2}$ " A, PN64/316L
Thread G1 $\frac{1}{2}$ " A, PN64/316L Ra<0,8µm
Thread G1 $\frac{1}{2}$ " A, PN64/Hastelloy
Thread 1" NPT, PN64/Hastelloy
Thread 1 $\frac{1}{2}$ " NPT, PN64/316L
Thread 1 $\frac{1}{2}$ " NPT, PN64/316L Ra<0,8µm
Thread 1 $\frac{1}{2}$ " NPT, PN64/Hastelloy
Thread M27x1.5, PN64/316L
Conus DN25, PN40/316L Ra < 0.3 µm
Conus DN25, PN40/316L Ra < 0.8 µm
Conus DN25, PN40/ECTFE (ZB3033)⁵⁾
Conus M52, PN40/316L
Conus M52, PN40/316L Ra < 0.3 µm
Conus M52, PN40/316L Ra < 0.8 µm
Tri-Clamp 1", PN16/316L Ra < 0.3 µm
Tri-Clamp 1", PN16/Hastelloy
Tri-Clamp 1", PN16 DIN 32676/316L Ra < 0.8 µm
Tri-Clamp 1 $\frac{1}{2}$ ", PN16/316L Ra < 0.3 µm
Tri-Clamp 1 $\frac{1}{2}$ ", PN16/Hastelloy

Order No.

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Tri-Clamp 1 $\frac{1}{2}$ ", PN16/316L Ra < 0.8 µm

Tri-Clamp 2", PN16/316L Ra < 0.3 µm
Tri-Clamp 2", PN16/Hastelloy

Tri-Clamp 2", PN16/316L Ra < 0.8 µm
Tri-Clamp 2 $\frac{1}{2}$ ", PN10/316L Ra < 0.3 µm
Tri-Clamp 2 $\frac{1}{2}$ ", PN10/316L Ra < 0.8 µm

Tri-Clamp 3", PN10/316L Ra < 0.3 µm
Tri-Clamp 3", PN10/316L Ra < 0.8 µm

Bolting DN32, PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN32, PN40 DIN11851/316L Ra < 0.8 µm
Bolting DN25, PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN25, PN40 DIN11851/316L Ra < 0.8 µm
Bolting DN40, PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN40, PN40 DIN11851/316L Ra < 0.8 µm
Bolting DN40, PN40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052

Bolting DN50, PN25 DIN11851/316L Ra < 0.3 µm
Bolting DN50, PN25 DIN11851/316L Ra < 0.8 µm
Bolting DN50, PN25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052

Hygienic w. compr. nut F40, PN25/316L
Hygienic w. compr. nut F40, PN25/316L Ra < 0.3 µm
Hygienic w. compr. nut F40, PN25/316L Ra < 0.8 µm

Varivent N50-40/316L Ra < 0.3 µm
Varivent N50-40/316L Ra < 0.8 µm
Varivent N125/100/316L Ra < 0.8 µm

DRD flange, PN40/316L ZB3007
SMS DN38/316L Ra < 0.8 µm⁵⁾
SMS DN51, PN6/316L Ra < 0.8 µm⁵⁾

Swagelok VCR screwing ZG2579, PN64/316L
Neumo biocontrol Gr. 25, PN16/316L Ra < 0.8 µm
Neumo biocontrol Gr. 50, PN16/316L Ra < 0.8 µm⁵⁾

Neumo biocontrol Gr. 65, PN16/316L Ra < 0.8 µm
Neumo biocontrol Gr. 80, PN16/316L Ra < 0.8 µm

SÜDMO DN50, PN10/316L/316L Ra<0,8µm

Small flange DN25, PN1.5 DIN 28403/316L pol.Ra < 0.8 µm

Small flange DN40, PN1.5 DIN 28403/316L pol.Ra < 0.8 µm

Ingold connection, PN16/316L Ra < 0.8 µm

Ingold connection, PN16/Hastelloy

Terminal DN 33,7 PN40 DIN11864-3-A-/316L BN2

Ra < 0.8 µm⁵⁾

Hygienic fl. DN50 PN16 DIN11864-2-A-/316L Ra < 0.8 µm

Flange DN25, PN6 Form C, DIN 2501/316L

Flange DN25, PN6 Form C, DIN 2501/PFA⁵⁾

Flange DN25, PN40 Form C, DIN 2501/316L

Flange DN25, PN40 Form C, DIN 2501/Hastelloy

Flange DN25, PN40 Form C, DIN 2501/ECTFE⁵⁾

Flange DN25, PN40 Form C, DIN 2501/PFA⁵⁾

Flange DN25, PN40 Form C, DIN 2501/Enamelled

Flange DN25, PN40 Form D, DIN 2501/316L

Flange DN25, PN40 Form F, DIN 2501/316L

Flange DN25, PN40 Form N, DIN 2501/316L

Flange DN25, PN40 Form N, DIN 2501/Hastelloy

Flange DN25, PN40 Form N, DIN 2501/Monel solid

Flange DN25, PN40 V13, DIN 2501/316L

Flange DN32, PN40 Form C, DIN 2501/316L

Flange DN32, PN40 Form C, DIN 2501/ECTFE⁵⁾

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SITRANS LVL200

Selection and Ordering data

Order 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.

Flange DN40, PN6 Form C, DIN 2501/316L	B 1 3
Flange DN40, PN6 Form C, DIN 2501/ECTFE ⁵⁾	B 1 4
Flange DN40, PN40 Form C, DIN 2501/316L	B 1 5
Flange DN40, PN40 Form C, DIN 2501/Hastelloy	B 1 6
Flange DN40, PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 1 7
Flange DN40, PN40 Form C, DIN 2501/PFA ⁵⁾	B 1 8
Flange DN40, PN40 Form C, DIN 2501/Enamelled ⁶⁾	B 2 0
Flange DN40, PN40 Form F, DIN 2501/316L	B 2 1
Flange DN40, PN40 Form N, DIN 2501/316L	B 2 2
Flange DN40, PN40 Form E, DIN 2501/316L	B 2 3
Flange DN40, PN40 V13, DIN 2501/316L	B 2 4
Flange DN50, PN40 Form C, DIN 2501/316L	B 2 5
Flange DN50, PN40 Form C, DIN 2501/Hastelloy	B 2 6
Flange DN50, PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 2 7
Flange DN50, PN40 Form C, DIN 2501/ECTFE (ZB3108) ⁵⁾	B 2 8
Flange DN50, PN40 Form C, DIN 2501/PFA ⁵⁾	B 3 0
Flange DN50, PN40 Form D, DIN 2501/316L	B 3 1
Flange DN50, PN40 Form D, DIN 2501/Hastelloy	B 3 2
Flange DN50, PN40 Form F, DIN 2501/316L	B 3 3
Flange DN50, PN40 Form N, DIN 2501/316L	B 3 4
Flange DN50, PN40 Form N, DIN 2501/Hastelloy	B 3 5
Flange DN50, PN40 Form E, DIN 2501/316L	B 3 6
Flange DN50, PN40 V13, DIN 2501/316L	B 3 7
Flange DN50, PN40 R13, DIN 2501/316L	B 3 8
Flange DN50, PN64 Form F, DIN 2501/316L	B 4 0
Flange DN50, PN64 Form N, DIN 2501/Hastelloy	B 4 1
Flange DN50, PN64 Form C, DIN 2501/316L	B 4 2
Flange DN50, PN64 Form L, DIN 2501/316L	B 4 3
Flange DN50, PN100 Form E, DIN 2501/316L	B 4 4
Flange DN50, PN100 Form L, DIN 2501/316L	B 4 5
Flange DN65, PN40 Form C, DIN 2501/316L	B 4 6
Flange DN65, PN40 Form C, DIN 2501/Hastelloy	B 4 7
Flange DN65, PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 4 8
Flange DN65, PN40 Form C, DIN 2501/PFA ⁵⁾	B 5 0
Flange DN65, PN40 Form F, DIN 2501/316L	B 5 1
Flange DN65, PN64 Form E, DIN 2501/316L	B 5 2
Flange DN80, PN40 Form C, DIN 2501/316L	B 5 3
Flange DN80, PN40 Form C, DIN 2501/Hastelloy	B 5 4
Flange DN80, PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 5 5
Flange DN80, PN40 Form C, DIN 2501/PFA ⁵⁾	B 5 6
Flange DN80, PN40 Form C, DIN 2501/Enamelled ⁶⁾	B 5 7
Flange DN80, PN40 Form F, DIN 2501/316L	B 5 8
Flange DN80, PN40 Form N, DIN 2501/316L	B 6 0
Flange DN80, PN40 Form N, DIN 2501/Hastelloy	B 6 1
Flange DN100, PN16 Form C, DIN 2501/316L	B 6 2
Flange DN100, PN16 Form C, DIN 2501/Hastelloy	B 6 3
Flange DN100, PN16 Form C, DIN 2501/ECTFE ⁵⁾	B 6 4
Flange DN100, PN16 Form C, DIN 2501/PFA ⁵⁾	B 6 5
Flange DN100, PN16 Form C, DIN 2501/Enamelled ⁶⁾	B 6 6
Flange DN100, PN16 Form D, DIN 2501/316L	B 6 7
Flange DN100, PN16 Form F, DIN 2501/316L	B 6 8
Flange DN100, PN16 Form N, DIN 2501/316L	B 7 0
Flange DN100, PN40 Form C, DIN 2501/316L	B 7 1
Flange DN100, PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 7 2
Flange DN100, PN40 Form C, DIN 2501/PFA ⁵⁾	B 7 3
Flange DN100, PN40 Form C, DIN 2501/Enamelled ⁶⁾	B 7 4

Selection and Ordering data

Order No.

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Flange DN100, PN40 Form F, DIN 2501/316L	B 7 5
Flange DN100, PN40 Form N, DIN 2501/316L	B 7 6
Flange DN100, PN40 V13, DIN 2501/316L	B 7 7
Flange DN100, PN64 Form E, DIN 2501/316L	B 7 8
Flange DN100, PN100 Form E, DIN 2501/316L	B 8 0
Flange DN100, PN100 Form L, DIN 2501/316L	B 8 1
Flange DN125, PN16 Form F, DIN 2501/316L	B 8 2
Flange DN125, PN40 Form C, DIN 2501/316L	B 8 3
Flange DN125, PN40 Form N, DIN 2512/316L	B 8 4
Flange DN150, PN16 Form C, DIN 2501/316L	B 8 5
Flange DN150, PN16 Form C, DIN 2501/Hastelloy	B 8 6
Flange DN150, PN16 Form C, DIN 2501/ECTFE ⁵⁾	B 8 7
Flange DN150, PN16 Form C, DIN 2501/PFA ⁵⁾	B 8 8
Flange DN150, PN16 Form D, DIN 2501/316L	C 0 0
Flange DN150, PN40 Form C, DIN 2501/316L	C 0 1
Flange DN150, PN40 Form C, DIN 2501/Hastelloy	C 0 2
Flange DN150, PN40 Form F, DIN 2501/316L	C 0 3
Flange DN150, PN40 Form N, DIN 2512/316L	C 0 4
Flange DN200, PN10 Form C, DIN 2501/ECTFE ⁵⁾	C 0 5
Flange DN200, PN16 Form C, DIN 2501/316L	C 0 6
Flange DN25, PN40 Form B1, EN 1092-1/316L	C 0 7
Flange DN25, PN40 Form B1, EN 1092-1/Hastelloy	C 0 8
Flange DN25, PN40 Form B1, EN 316L/PFA ⁵⁾	C 1 0
Flange DN25, PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 1 1
Flange DN25, PN40 Form B2, EN 1092-1/316L	C 1 2
Flange DN25, PN40 Form F, EN 1092-1/316L	C 1 3
Flange DN25, PN63 Form B1, EN 1092-1/316L	C 1 4
Flange DN25, PN100 Form B2, EN 1092-1/316L	C 1 5
Flange DN40, PN40 Form B1, EN/316L	C 1 6
Flange DN40, PN40 Form B1, EN 1092-1/PFA ⁵⁾	C 1 7
Flange DN40, PN40 Form B2, EN/316L	C 1 8
Flange DN50, PN40 Form B1, EN/316L	C 2 0
Flange DN50, PN40 Form B1, EN 1092-1/Hastelloy	C 2 1
Flange DN50, PN40 Form B1, EN 1092-1/Monel ZB2977	C 2 2
Flange DN50, PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 2 3
Flange DN50, PN40 Form B1, EN 316L/PFA ⁵⁾	C 2 4
Flange DN50, PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 2 5
Flange DN50, PN40 Form C, EN 1092-1/316L	C 2 6
Flange DN50, PN40 Form D, EN/316L	C 2 7
Flange DN50, PN40 Form D, EN 1092-1/Hastelloy	C 2 8
Flange DN50, PN40 Form B2, EN 1092-1/316L	C 3 0
Flange DN50, PN40 Form E, EN 1092-1/316L	C 3 1
Flange DN80, PN40 Form B1, EN 1092-1/316L	C 3 2
Flange DN80, PN40 Form B1, EN 1092-1/Hastelloy	C 3 3
Flange DN80, PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 3 4
Flange DN80, PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 3 5
Flange DN80, PN40 Form B2, EN 1092-1/316L	C 3 6
Flange DN100, PN16 Form B1, EN 1092-1/316L	C 3 7
Flange DN100, PN16 Form B1, EN 1092-1/Hastelloy	C 3 8
Flange DN100, PN16 Form B1, EN 1092-1/Enamelled ⁶⁾	C 4 0
Flange DN100, PN40 Form B1, EN 1092-1/316L	C 4 1
Flange DN100, PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 4 2
Flange DN100, PN40 Form C, EN 1092-1/316L	C 4 3
Flange DN100, PN63 Form B2, EN 1092-1/316L	C 4 4
Flange DN150, PN16 Form B1, EN 1092-1/316L	C 4 5

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	Order No.
Flange DN150, PN16 Form B1, EN 1092-1/PFA ⁵⁾	C 4 6
Flange DN150, PN40 Form B1, EN 1092-1/316L	C 4 7
Flange DN150, PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 4 8
Flange DN150, PN40 Form B2, EN 1092-1/316L	C 5 0
Flange 1" 150lb ANSI B16.5/316L	C 5 1
Flange 1" 150lb RF, ANSI B16.5/Hastelloy	C 5 2
Flange 1" 150lb RF, ANSI B16.5/Monel ZB2977	C 5 3
Flange 1" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 5 4
Flange 1" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 5 5
Flange 1" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	C 5 6
Flange 1" 300lb RF, ANSI B16.5/316L	C 5 7
Flange 1"300lb RF, ANSI B16.5/ECTFE ⁵⁾	C 5 8
Flange 1" 600lb RF, ANSI B16.5/316L	C 6 0
Flange 1½" 150lb RF, ANSI B16.5/316L	C 6 1
Flange 1½" 150lb RF, ANSI B16.5/Hastelloy	C 6 2
Flange 1½" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 6 3
Flange 1½" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 6 4
Flange 1½" 150lb RF, ANSI B16.5 Enamelled ⁶⁾	C 6 5
Flange 1½" 150lb FF, ANSI B16.5/ECTFE ⁵⁾	C 6 6
Flange 1½" 300lb RF, ANSI B16.5/316L	C 6 7
Flange 1½" 300lb RF, ANSI B16.5/Monel ZB2977	C 6 8
Flange 1½" 300lb RF, ANSI B16.5/ECTFE ⁶⁾	C 7 0
Flange 1½" 600lb RF, ANSI B16.5/316L	C 7 1
Flange 2" 150lb RF, ANSI B16.5/316L	C 7 2
Flange 2" 150lb RF, ANSI B16.5/Hastelloy	C 7 3
Flange 2" 150lb RF, ANSI B16.5/Monel ZB2977	C 7 4
Flange 2" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 7 5
Flange 2" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 7 6
Flange 2" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	C 7 7
Flange 2" 150lb FF, ANSI B16.5/316L	C 7 8
Flange 2" 150lb FF, ANSI B16.5/ECTF ⁵⁾	C 8 0
Flange 2" 150lb SG (small groove), ANSI B16.5/316L	C 8 1
Flange 2" 300lb RF, ANSI B16.5/316L	C 8 2
Flange 2" 300lb RF, ANSI B16.5/Hastelloy	C 8 3
Flange 2" 300lb RF, ANSI B16.5/Hastelloy	C 8 4
Flange 2" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	C 8 5
Flange 2" 300lb RF, ANSI B16.5/PFA ⁵⁾	C 8 6
Flange 2" 300lb RF, ANSI B16.5 Enamelled ⁶⁾	C 8 7
Flange 2" 300lb RJF, ANSI B16.5/316L	C 8 8
Flange 2" 300lb ST, ANSI B16.5/316L	D 0 0
Flange 2" 300lb LG (large groove), ANSI B16.5/316L	D 0 1
Flange 2" 300lb LT, ANSI B16.5/316L	D 0 2
Flange 2" 600lb RF, ANSI B16.5/316L	D 0 3
Flange 2" 600lb RF, ANSI B16.5/Monel ZB2977	D 0 4
Flange 2" 600lb RF, ANSI B16.5/ECTFE ⁵⁾	D 0 5
Flange 2" 600lb RJF, ANSI B16.5/316L	D 0 6
Flange 2" 600lb LG, ANSI B16.5/316L	D 0 7
Flange 2" 900lb RJF, ANSI B16.5/316L	D 0 8
Flange 2½" 150lb RF, ANSI B16.5/316L	D 1 0
Flange 2½" 300lb RF, ANSI B16.5/316L	D 1 1
Flange 3" 150lb RF, ANSI B16.5/316L	D 1 2
Flange 3" 150lb RF, ANSI B16.5/Hastelloy	D 1 3
Flange 3" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 1 4
Flange 3" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 1 5
Flange 3" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	D 1 6
Flange 3" 150lb FF, ANSI B16.5/316L	D 1 7
Flange 3" 150lb FF, ANSI B16.5/ECTFE ⁵⁾	D 1 8
Flange 3" 150lb FF, ANSI B16.5/PFA ⁵⁾	D 2 0
Flange 3" 300lb RF, ANSI B16.5/316L	D 2 1

Selection and Ordering data

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.

	Order No.
Flange 3" 300lb RF, ANSI B16.5/Hastelloy	D 2 2
Flange 3" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	D 2 3
Flange 3" 300lb RF, ANSI B16.5/PFA ⁵⁾	D 2 4
Flange 3" 300lb RF, ANSI B16.5/Enameled ⁶⁾	D 2 5
Flange 3" 600lb RF, ANSI B16.5/316L	D 2 6
Flange 3½" 150lb RF, ANSI B16.5/316L	D 2 7
Flange 3½" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 2 8
Flange 4" 150lb RF, ANSI B16.5/316L	D 3 0
Flange 4" 150lb RF, ANSI B16.5/Hastelloy	D 3 1
Flange 4" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 3 2
Flange 4" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 3 3
Flange 4" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	D 3 4
Flange 4" 150lb LT, ANSI B16.5/316L	D 3 5
Flange 4" 300lb RF, ANSI B16.5/316L	D 3 6
Flange 4" 300lb RF, ANSI B16.5/Hastelloy	D 3 7
Flange 4" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	D 3 8
Flange 4" 300lb RJF, ANSI B16.5/316L	D 4 0
Flange 4" 300lb LG, ANSI B16.5/316L	D 4 1
Flange 4" 300lb LT, ANSI B16.5/316L	D 4 2
Flange 4" 600lb RF, ANSI B16.5/316L	D 4 3
Flange 4" 600lb RJF, ANSI B16.5/316L	D 4 4
Flange 6" 150lb RF, ANSI B16.5/316L	D 4 5
Flange 6" 150lb RF, ANSI B16.5/Hastelloy	D 4 6
Flange 6" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 4 7
Flange 6" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 4 8
Flange 6" 150lb RJF, ANSI B16.5/316L	D 5 0
Flange 6" 300lb RF, ANSI B16.5/316L	D 5 1
Flange 8" 150lb RF, ANSI B16.5/316L	D 5 2
Flange 8" 150lb 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 DN40 10K, JIS/316L	D 6 0
Flange DN50 10K, JIS/316L	D 6 1
Flange DN80 10K, JIS/316L	D 6 2
Flange DN100 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
Housing/ Cable entry	
Aluminium IP66/IP67/M20x1.5	A
Aluminium IP66/IP67½" NPT	B

¹⁾ Available with Approval options A to G, and K, and Adapter/Process temperature options 1, and 3 to 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

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Order No. and specify Order code(s).	
Cleaning including Certificate (oil, grease and silicone free)	W01
Identification Label (measurement loop) SS: 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 instrument EN10204	C14
Acceptance test Certificate 2.2 for material EN10204	C15
SIL/IEC61508 Certificate of conformity (SIL-2/3 min. and max. detection)	C20
Additional Operating Instructions	Order No.
<u>LVL200 (DPDT Relay)</u>	
• English	7ML1998-5KR01
• French	7ML1998-5KR11
• Spanish	7ML1998-5KR21
• German	7ML1998-5KR31
<u>LVL200 (Contactless electronic switch)</u>	
• English	7ML1998-5KQ01
• French	7ML1998-5KQ11
• Spanish	7ML1998-5KQ21
• German	7ML1998-5KQ31
<u>Electronics module LVL200 Relay</u>	
• English	7ML1998-5LS01
• French	7ML1998-5LS11
• Spanish	7ML1998-5LS21
• German	7ML1998-5LS31
This device is shipped with the Siemens Milltronics manual CD containing the complete Operating Instructions library.	
Spare Parts	
Electronics module SITRANS LVL200 Relay	7ML1830-1NC
<u>LVL100 Threaded Welded Socket</u>	
• G ¾" A / 316L with FKM Seal	7ML1930-1EE
• G 1 A / 316L with FKM Seal	7ML1930-1EF
• M27x1.5 / 316L with FKM Seal	7ML1930-1EG
• G ¾ A / 316L with EPDM Seal	7ML1930-1EH
• G 1 A / 316L with EPDM Seal	7ML1930-1EJ
• M27x1.5 / 316L with EPDM Seal	7ML1930-1EK

Level Measurement

SITRANS LVL200

5

Selection and Ordering data

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.

Electronics

Contactless electronic switch 20...250 V AC/DC
Double relay (DPDT) 20 ... 72 V DC/20 ... 250 V AC
NAMUR signal¹⁾

Approvals

Without approvals
Overfill protection (WHG)
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + WHG²⁾
ATEX II 1/2G, 2G EEx d IIC T6 + WHG³⁾
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + shipping approvals²⁾
ATEX II 1/2G, 2G EEx d IIC T6 + shipping approvals³⁾
ATEX II 1G, 1/2G, 2G EEx ia IIC T6 + ATEX II 1/2D IP6X T²⁾
Shipping approvals
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP)
Class II, III, Div. 1, Groups E, F, G^{3/4)}
FM (NI) Class I, Div. 2, Groups A, B, C, D⁴⁾
IECEx d IIC T6...T2 Ga/Gb
CSA(XP)CL I,II,III DIV 1,GP A B C D E F G...T2 Ga/Gb
CSA(NI)CL I,II,III, DIV 2,GP A B C D E F G

Process connection

Thread G^{3/4}" A, PN64/316L
Thread G^{3/4}" A, PN64/316L Ra < 0.8 µm
Thread 3/4" NPT, PN64/316L
Thread 3/4" NPT, PN64/316L Ra < 0.8 µm
Thread 3/4" NPT, PN64/Monel
Thread G^{3/4}" A, PN64/Hastelloy
Thread 3/4" NPT, PN64/Hastelloy
Thread G1" A, PN64/316L
Thread G1" A, PN64/316L ECTFE coated MB1982⁵⁾
Thread G1" A, PN64/316L PFA coated⁵⁾
Thread G1" A, PN64/Monel
Thread G1" A, PN64/316L Ra < 0.8 µm
Thread 1" NPT, PN64/316L
Thread 1" NPT, PN64/316L ECTFE coated MB1982⁵⁾
Thread 1" NPT, PN64/316L PFA coated⁵⁾
Thread 1" NPT, PN64/Monel
Thread 1" NPT, PN64/316L Ra < 0.8 µm
Thread G1" A, PN64/Hastelloy
Thread G1½" A, PN64/316L
Thread G1½" A, PN64/316L Ra < 0.8 µm
Thread G1½" A, PN64/Hastelloy
Thread 1" NPT, PN64/Hastelloy
Thread 1½" NPT, PN64/316L
Thread 1½" NPT, PN64/316L Ra < 0.8 µm
Thread 1½" NPT, PN64/Hastelloy
Thread G2" A, PN64/316L
Thread M27x1.5 PN64/316L
Cyl. socket/316Ti/1.4581 ECTFE coated ZB2984⁵⁾
Conus DN25 PN40/316L Ra < 0.3 µm
Conus DN25 PN40/316L Ra < 0.8 µm
Conus DN25 PN40/ECTFE (ZB3033)⁵⁾
Conus M52 PN40/316L
Conus M52 PN40/316L Ra < 0.3 µm
Conus M52 PN40/316L Ra < 0.8 µm
Tri-Clamp 1" PN16 DIN 32676/316L Ra < 0.3 µm
Tri-Clamp 1" PN16/Hastelloy
Tri-Clamp 1" PN16/316L Ra < 0.8 µm

Order No.

7 ML 5 7 4 7 -

1
2
4A
B
CD
EF
GK
PQ
RS
T

A 0 0

A 0 1

A 0 2

A 0 3

A 0 4

A 0 5

A 0 6

A 0 7

A 0 8

A 1 0

A 1 1

A 1 3

A 1 4

A 1 5

A 1 6

A 1 7

A 1 8

A 2 0

A 2 1

A 2 2

A 2 3

A 2 4

A 2 5

A 2 6

A 2 7

A 2 8

A 3 0

A 3 1

A 3 2

A 3 3

A 3 4

A 3 5

A 3 6

A 3 7

A 3 8

A 4 0

A 4 1

Selection and Ordering data

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.

Tri-Clamp 1½" PN16/316L Ra < 0.3 µm

Tri-Clamp 1½" PN16/Hastelloy

Tri-Clamp 1½" PN16/316L Ra < 0.8 µm

Tri-Clamp 2" PN16/316L Ra < 0.3 µm

Tri-Clamp 2" PN16/Hastelloy

Tri-Clamp 2" PN16/316L Ra < 0.8 µm

Tri-Clamp 2½" PN10/316L Ra < 0.3 µm

Tri-Clamp 2½" PN10/316L Ra < 0.8 µm

Tri-Clamp 3" PN10/316L Ra < 0.3 µm

Tri-Clamp 3" PN10/316L Ra < 0.8 µm

Bolting DN32 PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN32 PN40 DIN11851/316L Ra < 0.8 µm

Bolting DN25 PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN25 PN40 DIN11851/316L Ra < 0.8 µm

Bolting DN40 PN40 DIN11851/316L Ra < 0.3 µm

Bolting DN40 PN40 DIN11851/316L Ra < 0.8 µm

Bolting DN40 PN40 DIN11864-1 A/316L

Ra < 0.8 µm ZB3052

Bolting DN50 PN25 DIN11851/316L Ra < 0.3 µm

Bolting DN50 PN25 DIN11851/316L Ra < 0.8 µm

Bolting DN50 PN25 DIN11864-1 A/316L

Ra < 0.8 µm ZB3052

Hygienic w.compr.nut F40 PN25/316L

Hygienic w.compr.nut F40 PN25/316L Ra < 0.3 µm

Hygienic w.compr.nut F40 PN25/316L Ra < 0.8 µm

Varivent N50-40/316L Ra < 0.3 µm

Varivent N50-40/316L Ra < 0.8 µm

Varivent N125/100/316L Ra < 0.8 µm

DRD flange PN40/316L ZB3007

SMS DN38/316L Ra < 0.8 µm⁵⁾SMS DN51 PN6/316L Ra < 0.8 µm⁵⁾

Swagelok VCR screwing ZG2579 PN64/316L

Neumo biocontrol Gr.25 PN16/316L Ra < 0.8 µm

Neumo biocontrol Gr.50 PN16/316L Ra < 0.8 µm

Neumo biocontrol Gr.65 PN16/316L Ra < 0.8 µm

Neumo biocontrol Gr.80 PN16/316L Ra < 0.8 µm

SÜDMO DN50 PN10/316L/316L Ra < 0.8 µm

Small flange DN25 PN1.5 DIN 28403/316L

pol.Ra < 0.8 µm

Small flange DN40 PN1.5 DIN 28403/316L

pol.Ra < 0.8 µm

Ingold connection PN16/316L Ra < 0.8 µm

Terminal DN33.7 PN40 DIN 11864-3-A-/316L BN2

Ra < 0.8 µm

Hygienic fl. DN50 PN16 DIN 11864-2-A-/316L

Ra < 0.8 µm

Flange DN25 PN6 Form C, DIN 2501/316L

Flange DN25 PN6 Form C, DIN 2501/PFA⁵⁾

Flange DN25 PN40 Form C, DIN 2501/316L

Flange DN25 PN40 Form C, DIN 2501/Hastelloy

Flange DN25 PN40 Form C, DIN 2501/ECTFE⁵⁾Flange DN25 PN40 Form C, DIN 2501/PFA⁵⁾

Flange DN25 PN40 Form D, DIN 2501/316L

Order No.

7 ML 5 7 4 7 -

A 4 2

A 4 3

A 4 4

A 4 5

A 4 6

A 4 7

A 4 8

A 5 0

A 5 1

A 5 2

A 5 3

A 5 4

A 5 5

A 5 6

A 5 7

A 5 8

A 6 0

A 6 1

A 6 2

A 6 3

A 6 4

A 6 5

A 6 6

A 6 7

A 6 8

A 7 0

A 7 1

A 7 2

A 7 3

A 7 4

A 7 5

A 7 6

A 7 7

A 7 8

A 8 0

A 8 1

A 8 2

A 8 3

A 8 4

A 8 5

A 8 6

A 8 7

A 8 8

B 0 0

B 0 1

B 0 2

B 0 3

SITRANS LVL200

Selection and Ordering data

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.

	Order No.
Flange DN25 PN40 Form F, DIN 2501/316L	B 0 4
Flange DN25 PN40 Form N, DIN 2501/316L	B 0 5
Flange DN25 PN40 Form N, DIN 2501/Hastelloy	B 0 6
Flange DN25 PN40 Form N, DIN 2501/Monel solid	B 0 7
Flange DN25 PN40 V13, DIN 2501/316L	B 0 8
Flange DN32 PN40 Form C, DIN 2501/316L	B 1 0
Flange DN32 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 1 1
Flange DN40 PN6 Form C, DIN 2501/316L	B 1 2
Flange DN40 PN6 Form C, DIN 2501/ECTFE ⁵⁾	B 1 3
Flange DN40 PN40 Form C, DIN 2501/316L	B 1 4
Flange DN40 PN40 Form C, DIN 2501/Hastelloy	B 1 5
Flange DN40 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 1 6
Flange DN40 PN40 Form C, DIN 2501/PFA ⁵⁾	B 1 7
Flange DN40 PN40 Form C, DIN 2501/Enamelled ⁶⁾	B 1 8
Flange DN40 PN40 Form F, DIN 2501/316L	B 2 0
Flange DN40 PN40 Form N, DIN 2501/316L	B 2 1
Flange DN40 PN40 Form E, DIN 2501/316L	B 2 2
Flange DN40 PN40 V13, DIN 2501/316L	B 2 3
Flange DN50 PN40 Form C, DIN 2501/316L	B 2 4
Flange DN50 PN40 Form C, DIN 2501/Hastelloy	B 2 5
Flange DN50 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 2 6
Flange DN50 PN40 Form C, DIN 2501/ECTFE (ZB3108 ⁵⁾	B 2 7
Flange DN50 PN40 Form C, DIN 2501/PFA ⁵⁾	B 2 8
Flange DN50 PN40 Form D, DIN 2501/316L	B 3 0
Flange DN50 PN40 Form D, DIN 2501/Hastelloy	B 3 1
Flange DN50 PN40 Form F, DIN 2501/316L	B 3 2
Flange DN50 PN40 Form N, DIN 2501/316L	B 3 3
Flange DN50 PN40 Form N, DIN 2501/Hastelloy	B 3 4
Flange DN50 PN40 Form E, DIN 2501/316L	B 3 5
Flange DN50 PN40 V13, DIN 2501/316L	B 3 6
Flange DN50 PN40 R13, DIN 2501/316L	B 3 7
Flange DN50 PN64 Form F, DIN 2501/316L	B 3 8
Flange DN50 PN64 Form N, DIN 2501/Hastelloy	B 4 0
Flange DN50 PN64 Form C, DIN 2501/316L	B 4 1
Flange DN50 PN64 Form L, DIN 2501/316L	B 4 2
Flange DN50 PN100 Form E, DIN 2501/316L	B 4 3
Flange DN50 PN100 Form L, DIN 2501/316L	B 4 4
Flange DN65 PN40 Form C, DIN 2501/316L	B 4 5
Flange DN65 PN40 Form C, DIN 2501/Hastelloy	B 4 6
Flange DN65 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 4 7
Flange DN65 PN40 Form C, DIN 2501/PFA ⁵⁾	B 4 8
Flange DN65 PN40 Form F, DIN 2501/316L	B 5 0
Flange DN65 PN64 Form E, DIN 2501/316L	B 5 1
Flange DN80 PN40 Form C, DIN 2501/316L	B 5 2
Flange DN80 PN40 Form C, DIN 2501/Hastelloy	B 5 3
Flange DN80 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 5 4
Flange DN80 PN40 Form C, DIN 2501/PFA ⁵⁾	B 5 5
Flange DN80 PN40 Form F, DIN 2501/316L	B 5 6
Flange DN80 PN40 Form N, DIN 2501/316L	B 5 7
Flange DN80 PN40 Form N, DIN 2501/Hastelloy	B 5 8
Flange DN100 PN16 Form C, DIN 2501/316L	B 6 0
Flange DN100 PN16 Form C, DIN 2501/Hastelloy	B 6 1
Flange DN100 PN16 Form C, DIN 2501/ECTFE ⁵⁾	B 6 2
Flange DN100 PN16 Form C, DIN 2501/PFA ⁵⁾	B 6 3
Flange DN100 PN16 Form D, DIN 2501/316L	B 6 4
Flange DN100 PN16 Form F, DIN 2501/316L	B 6 5
Flange DN100 PN16 Form N, DIN 2501/316L	B 6 6

Selection and Ordering data

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.

	Order No.
Flange DN100 PN40 Form C, DIN 2501/316L	B 6 7
Flange DN100 PN40 Form C, DIN 2501/ECTFE ⁵⁾	B 6 8
Flange DN100 PN40 Form C, DIN 2501/PFA ⁵⁾	B 7 0
Flange DN100 PN40 Form C, DIN 2501/Enamelled ⁶⁾	B 7 1
Flange DN100 PN40 Form F, DIN 2501/316L	B 7 2
Flange DN100 PN40 Form N, DIN 2501/316L	B 7 3
Flange DN100 PN40 V13, DIN 2501/316L	B 7 4
Flange DN100 PN64 Form E, DIN 2501/316L	B 7 5
Flange DN100 PN100 Form E, DIN 2501/316L	B 7 6
Flange DN100 PN100 Form L, DIN 2501/316L	B 7 7
Flange DN125 PN16 Form F, DIN 2501/316L	B 7 8
Flange DN125 PN40 Form C, DIN 2501/316L	B 8 0
Flange DN125 PN40 Form N, DIN 2512/316L	B 8 1
Flange DN150 PN16 Form C, DIN 2501/316L	B 8 2
Flange DN150 PN16 Form C, DIN 2501/Hastelloy	B 8 3
Flange DN150 PN16 Form C, DIN 2501/ECTFE ⁵⁾	B 8 4
Flange DN150 PN16 Form C, DIN 2501/PFA ⁵⁾	B 8 5
Flange DN150 PN16 Form D, DIN 2501/316L	B 8 6
Flange DN150 PN40 Form C, DIN 2501/316L	B 8 7
Flange DN150 PN40 Form C, DIN 2501/Hastelloy	B 8 8
Flange DN150 PN40 Form F, DIN 2501/316L	C 0 0
Flange DN150 PN40 Form N, DIN 2512/316L	C 0 1
Flange DN200 PN10 Form C, DIN 2501/ECTFE ⁵⁾	C 0 2
Flange DN200 PN16 Form C, DIN 2501/316L	C 0 3
Flange DN25 PN40 Form B1, EN 1092-1/316L	C 0 4
Flange DN25 PN40 Form B1, EN 1092-1/Hastelloy	C 0 5
Flange DN25 PN40 Form B1, EN/316L/PFA ⁵⁾	C 0 6
Flange DN25 PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 0 7
Flange DN25 PN40 Form B2, EN 1092-1/316L	C 0 8
Flange DN25 PN40 Form F, EN 1092-1/316L	C 1 0
Flange DN25 PN63 Form B1, EN 1092-1/316L	C 1 1
Flange DN25 PN100 Form B2, EN 1092-1/316L	C 1 2
Flange DN40 PN40 Form B1, EN/316L	C 1 3
Flange DN40 PN40 Form B1, EN 1092-1/PFA ⁵⁾	C 1 4
Flange DN40 PN40 Form B2, EN/316L	C 1 5
Flange DN50 PN40 Form B1, EN/316L	C 1 6
Flange DN50 PN40 Form B1, EN 1092-1/Hastelloy	C 1 7
Flange DN50 PN40 Form B1, EN 1092-1/	C 1 8
Monel ZB2977	
Flange DN50 PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 2 0
Flange DN50 PN40 Form B1, EN/316L/PFA ⁵⁾	C 2 1
Flange DN50 PN40 Form B1, EN 1092-1/Enamelled ⁶⁾	C 2 2
Flange DN50 PN40 Form C, EN 1092-1/316L	C 2 3
Flange DN50 PN40 Form D, EN/316L	C 2 4
Flange DN50 PN40 Form D, EN 1092-1/	C 2 5
Hastelloy	
Flange DN50 PN40 Form B2, EN 1092-1/316L	C 2 6
Flange DN50 PN40 Form E, EN 1092-1/316L	C 2 7
Flange DN80 PN40 Form B1, EN 1092-1/316L	C 2 8
Flange DN80 PN40 Form B1, EN 1092-1/Hastelloy	C 3 0
Flange DN80 PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 3 1
Flange DN80 PN40 Form B1, EN 1092-1/	C 3 2
Enamelled ⁶⁾	
Flange DN80 PN40 Form B2, EN 1092-1/316L	C 3 3
Flange DN100 PN16 Form B1, EN 1092-1/316L	C 3 4
Flange DN100 PN16 Form B1, EN 1092-1/Hastelloy	C 3 5
Flange DN100 PN16 Form B1, EN 1092-1/Enamelled ⁶⁾	C 3 6

Level Measurement

SITRANS LVL200

5

Selection and Ordering data

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.

	Order No.
Flange DN100 PN40 Form B1, EN 1092-1/316L	C 3 7
Flange DN100 PN40 Form B1, EN 1092-1/ Enamelled ⁶⁾	C 3 8
Flange DN100 PN40 Form C, EN 1092-1/316L	C 4 0
Flange DN100 PN63 Form B2, EN 1092-1/316L	C 4 1
Flange DN150 PN16 Form B1, EN 1092-1/316L	C 4 2
Flange DN150 PN16 Form B1, EN 1092-1/PFA ⁵⁾	C 4 3
Flange DN150 PN40 Form B1, EN 1092-1/316L	C 4 4
Flange DN150 PN40 Form B1, EN 1092-1/ECTFE ⁵⁾	C 4 5
Flange DN150 PN40 Form B2, EN 1092-1/316L	C 4 6
Flange 1" 150lb ANSI B16.5/316L	C 4 7
Flange 1" 150lb RF, ANSI B16.5/Hastelloy	C 4 8
Flange 1" 150lb RF, ANSI B16.5//Monel ZB2977	C 5 0
Flange 1" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 5 1
Flange 1" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 5 2
Flange 1" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	C 5 3
Flange 1" 300lb RF, ANSI B16.5/316L	C 5 4
Flange 1" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	C 5 5
Flange 1" 600lb RF, ANSI B16.5/316L	C 5 6
Flange 1½" 150lb RF, ANSI B16.5/316L	C 5 7
Flange 1½" 150lb RF, ANSI B16.5/Hastelloy	C 5 8
Flange 1½" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 6 0
Flange 1½" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 6 1
Flange 1½" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	C 6 2
Flange 1½" 150lb FF, ANSI B16.5/ECTFE ⁵⁾	C 6 3
Flange 1½" 300lb RF, ANSI B16.5/316L	C 6 4
Flange 1½" 300lb RF, ANSI B16.5//Monel ZB2977	C 6 5
Flange 1½" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	C 6 6
Flange 1½" 600lb RF, ANSI B16.5/316L	C 6 7
Flange 2" 150lb RF, ANSI B16.5/316L	C 6 8
Flange 2" 150lb RF, ANSI B16.5/Hastelloy	C 7 0
Flange 2" 150lb RF, ANSI B16.5//Monel ZB2977	C 7 1
Flange 2" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	C 7 2
Flange 2" 150lb RF, ANSI B16.5/PFA ⁵⁾	C 7 3
Flange 2" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	C 7 4
Flange 2" 150lb FF, ANSI B16.5/316L	C 7 5
Flange 2" 150lb FF, ANSI B16.5/ECTFE ⁵⁾	C 7 6
Flange 2" 150lb SG (small groove), ANSI B16.5/316L	C 7 7
Flange 2" 300lb RF, ANSI B16.5/316L	C 7 8
Flange 2" 300lb RF, ANSI B16.5/Hastelloy	C 8 0
Flange 2" 300lb RF, ANSI B16.5/Hastelloy	C 8 1
Flange 2" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	C 8 2
Flange 2" 300lb RF, ANSI B16.5/PFA ⁵⁾	C 8 3
Flange 2" 300lb RF, ANSI B16.5 Enamelled ⁶⁾	C 8 4
Flange 2" 300lb RJF, ANSI B16.5/316L	C 8 5
Flange 2" 300lb ST, ANSI B16.5/316L	C 8 6
Flange 2" 300lb LG (large groove), ANSI B16.5/316L	C 8 7
Flange 2" 300lb LT, ANSI B16.5/316L	C 8 8
Flange 2" 600lb RF, ANSI B16.5/316L	D 0 0
Flange 2" 600lb RF, ANSI B16.5/Monel ZB2977	D 0 1
Flange 2" 600lb RF, ANSI B16.5/ECTFE ⁵⁾	D 0 2
Flange 2" 600lb RJF, ANSI B16.5/316L	D 0 3
Flange 2" 600lb LG, ANSI B16.5/316L	D 0 4
Flange 2" 900lb RJF, ANSI B16.5/316L	D 0 5
Flange 2½" 150lb RF, ANSI B16.5/316L	D 0 6
Flange 2½" 300lb RF, ANSI B16.5/316L	D 0 7
Flange 3" 150lb RF, ANSI B16.5/316L	D 0 8
Flange 3" 150lb RF, ANSI B16.5/Hastelloy	D 1 0

Selection and Ordering data

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.

	Order No.
Flange 3" 150lb RF, ANSI B16.5//Monel ZB2977	D 1 1
Flange 3" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 1 2
Flange 3" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 1 3
Flange 3" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	D 1 4
Flange 3" 300lb RF, ANSI B16.5/316L	D 1 5
Flange 3" 150lb FF, ANSI B16.5/ECTFE ⁵⁾	D 1 6
Flange 3" 150lb FF, ANSI B16.5/PFA ⁵⁾	D 1 7
Flange 3" 300lb RF, ANSI B16.5/Hastelloy	D 2 0
Flange 3" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	D 2 1
Flange 3" 300lb RF, ANSI B16.5/PFA ⁵⁾	D 2 2
Flange 3" 300lb RF, ANSI B16.5/Enamelled ⁶⁾	D 2 3
Flange 3" 600lb RF, ANSI B16.5/316L	D 2 4
Flange 3½" 150lb RF, ANSI B16.5/316L	D 2 5
Flange 3½" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 2 6
Flange 4" 150lb RF, ANSI B16.5/316L	D 2 7
Flange 4" 150lb RF, ANSI B16.5/Hastelloy	D 2 8
Flange 4" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 3 0
Flange 4" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 3 1
Flange 4" 150lb RF, ANSI B16.5/Enamelled ⁶⁾	D 3 2
Flange 4" 150lb LT, ANSI B16.5/316L	D 3 3
Flange 4" 300lb RF, ANSI B16.5/316L	D 3 4
Flange 4" 300lb RF, ANSI B16.5/Hastelloy	D 3 5
Flange 4" 300lb RF, ANSI B16.5/ECTFE ⁵⁾	D 3 6
Flange 4" 300lb RJF, ANSI B16.5/316L	D 3 7
Flange 4" 300lb LG, ANSI B16.5/316L	D 3 8
Flange 4" 300lb LT, ANSI B16.5/316L	D 4 0
Flange 4" 600lb RF, ANSI B16.5/316L	D 4 1
Flange 4" 600lb RJF, ANSI B16.5/316L	D 4 2
Flange 5" 150lb RF, ANSI B16.5/316L	D 4 3
Flange 6" 150lb RF, ANSI B16.5/316L	D 4 4
Flange 6" 150lb RF, ANSI B16.5/Hastelloy	D 4 5
Flange 6" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 4 6
Flange 6" 150lb RF, ANSI B16.5/PFA ⁵⁾	D 4 7
Flange 6" 150lb RJF, ANSI B16.5/316L	D 4 8
Flange 6" 300lb RF, ANSI B16.5/316L	D 5 0
Flange 8" 150lb RF, ANSI B16.5/316L	D 5 1
Flange 8" 150lb RF, ANSI B16.5/ECTFE ⁵⁾	D 5 2
Flange 1" BS.10 Table E/316L	D 5 3
Flange 1" BS.10 Table E/PFA ⁵⁾	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 ⁵⁾	D 5 7
Flange DN40 10K, JIS/316L	D 5 8
Flange DN50 10K, JIS/316L	D 6 0
Flange DN80 10K, JIS/316L	D 6 1
Flange DN100 10K, JIS/316L	D 6 2

SITRANS LVL200

Selection and Ordering data		Order No.	Selection and Ordering data		Order No.
SITRANS LVL200, Rigid extension		7 ML 5 7 4 7 -	SITRANS LVL200, Rigid extension		7 ML 5 7 4 7 -
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.			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.		
Adapter/Process temperature			Rigid Extension Enamelled version⁶⁾		
Without adapter/-50 ... 150 °C	1		80 ... 250 mm		F 0
With adapter/-50 ... 200 °C ⁷⁾	2		251 ... 500 mm		F 1
With adapter/-50... 250 °C	3		501 ... 750 mm		F 2
With gas-tight leadthrough/-50 ... +150 °C	4		751 ... 1000 mm		F 3
With gas-tight leadthrough/-50 ... +250 °C	5		1001 ... 1250 mm		F 4
Housing/ Cable entry		A	1251 ... 1500 mm		F 5
Aluminium IP66/IP67/M20x1.5		B			
Aluminium IP66/IP67/½" NPT					
NOTE:			Rigid Extension Hastelloy		
When selecting a Rigid Extension option, extension coating must match the process connection coating and the material and surface roughness type.			80 ... 500 mm		G 0
Rigid Extension 316L			501 ... 1000 mm		G 1
80 ... 500 mm		A 0	1001 ... 1500 mm		G 2
501 ... 1000 mm		A 1	1501 ... 2000 mm		G 3
1001 ... 1500 mm		A 2	2001 ... 2500 mm		G 4
1501 ... 2000 mm		A 3	2501 ... 3000 mm		G 5
2001 ... 2500 mm		A 4	3001 ... 3500 mm		G 6
2501 ... 3000 mm		A 5	3501 ... 4000 mm		G 7
3001 ... 3500 mm		A 6			
3501 ... 4000 mm		A 7			
Rigid Extension ECTFE coated⁵⁾			Rigid Extension Monel		
80 ... 500 mm		B 0	80 ... 500 mm		H 0
501 ... 1000 mm		B 1	501 ... 1000 mm		H 1
1001 ... 1500 mm		B 2	1001 ... 1500 mm		H 2
1501 ... 2000 mm		B 3	1501 ... 2000 mm		H 3
2001 ... 2500 mm		B 4	2001 ... 2500 mm		H 4
2501 ... 3000 mm		B 5	2501 ... 3000 mm		H 5
3001 ... 3500 mm		B 6			
3501 ... 4000 mm		B 7			
Rigid Extension PFA coated⁵⁾					
80 ... 500 mm		C 0			
501 ... 1000 mm		C 1			
1001 ... 1500 mm		C 2			
1501 ... 2000 mm		C 3			
2001 ... 2500 mm		C 4			
2501 ... 3000 mm		C 5			
Rigid Extension 316L Ra ≤ 0.8 µm					
80 ... 500 mm		D 0			
501 ... 1000 mm		D 1			
1001 ... 1500 mm		D 2			
1501 ... 2000 mm		D 3			
2001 ... 2500 mm		D 4			
2501 ... 3000 mm		D 5			
3001 ... 3500 mm		D 6			
3501 ... 4000 mm		D 7			
Rigid Extension 316L Ra ≤ 0.3 µm					
80 ... 500 mm		E 0			
501 ... 1000 mm		E 1			
1001 ... 1500 mm		E 2			
1501 ... 2000 mm		E 3			
2001 ... 2500 mm		E 4			
2501 ... 3000 mm		E 5			
3001 ... 3500 mm		E 6			
3501 ... 4000 mm		E 7			

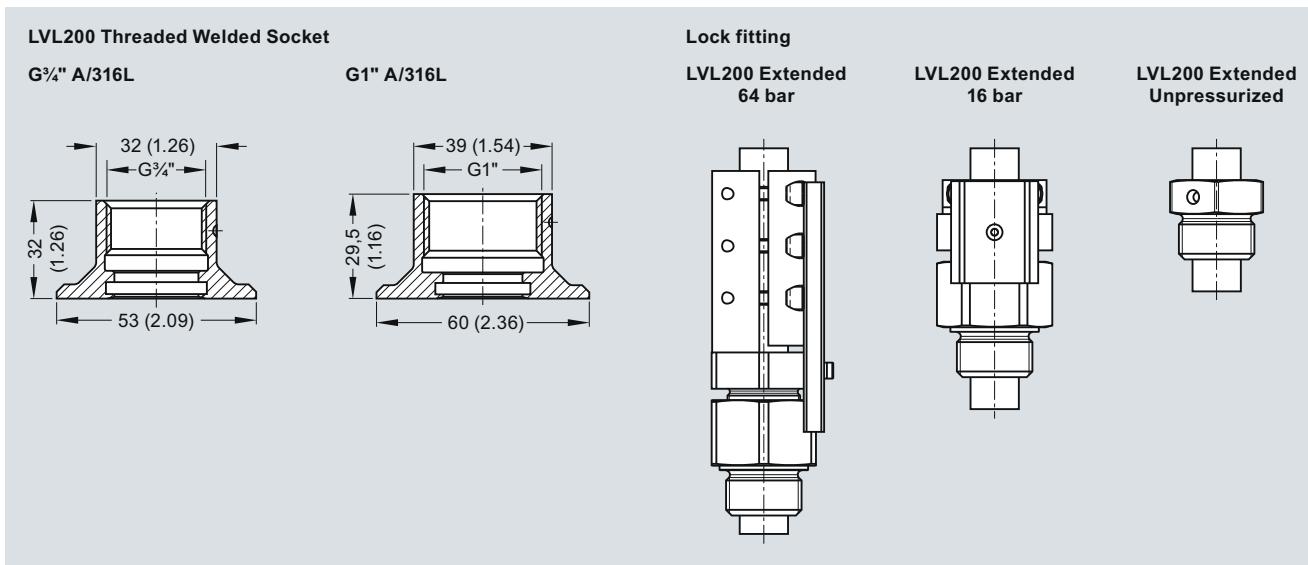
- 1) Available with Approval options A to G, and K, and Adapter/Process temperature options 1, and 3 to 5 only
 2) Available with Electronics option 4 only
 3) Available with Adapter/Process temperature options 1 and 3 only
 4) Available with Housing/Cable entry option B only
 5) Available with Adapter/Process temperature options 1 and 4 only
 6) Available with Adapter/Process temperature options 1, 2, and 4 only
 7) Available with enamelled Process connection and Extension options only

Level Measurement

SITRANS LVL200

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Order 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. 4000 mm (157.48")	Y01
Identification Label (measurement loop) SS: 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	C12
Acceptance test certificate 2.2 for instrument	C14
Acceptance test Certificate 2.2 for material EN10204	C15
SIL/IEC61508 Certificate of conformity (SIL-2/3 min. and max. detection)	C20
Additional Operating Instructions	Order No.
<u>LVL200 Extended (DPDT Relay)</u>	
• English	7ML1998-5KW01
• French	7ML1998-5KW11
• Spanish	7ML1998-5KW21
• German	7ML1998-5KW31
<u>LVL200 (Contactless electronic switch)</u>	
• English	7ML1998-5KV01
• French	7ML1998-5KV11
• Spanish	7ML1998-5KV21
• German	7ML1998-5KV31
<u>Electronics module LVL200 Relay</u>	
• English	7ML1998-5LS01
• French	7ML1998-5LS11
• Spanish	7ML1998-5LS21
• German	7ML1998-5LS31
This device is shipped with the Siemens Milltronics manual CD containing the complete Operating Instructions library.	
Spare Parts	
Electronics module SITRANS LVL200 Relay	7ML1830-1NC
Lock fitting, unpressurized, G1A/316L	7ML1930-1DQ
Lock fitting, unpressurized, 1NPT/316L	7ML1930-1DR
Lock fitting, unpressurized, 1-1/2NPT/316L	7ML1930-1DS
Lock fitting, unpressurized, G1-1/2A/316L	7ML1930-1DT
Lock fitting, unpressurized, 1-1/2NPT/316L	7ML1930-1DU
Lock fitting, -1... 16 bar, G1A/316L	7ML1930-1DV
Lock fitting, -1... 16 bar, 1NPT/316L	7ML1930-1DW
Lock fitting, -1... 16 bar, G1-1/2A/316L	7ML1930-1DX
Lock fitting, -1... 16 bar, 1-1/2NPT/316L	7ML1930-1EA
Lock fitting, -1... 64 bar, G1A/316L	7ML1930-1EB
Lock fitting, -1... 64 bar, 1NPT/316L	7ML1930-1EC
Lock fitting, -1... 64 bar, G1-1/2A/316L	7ML1930-1ED

Options



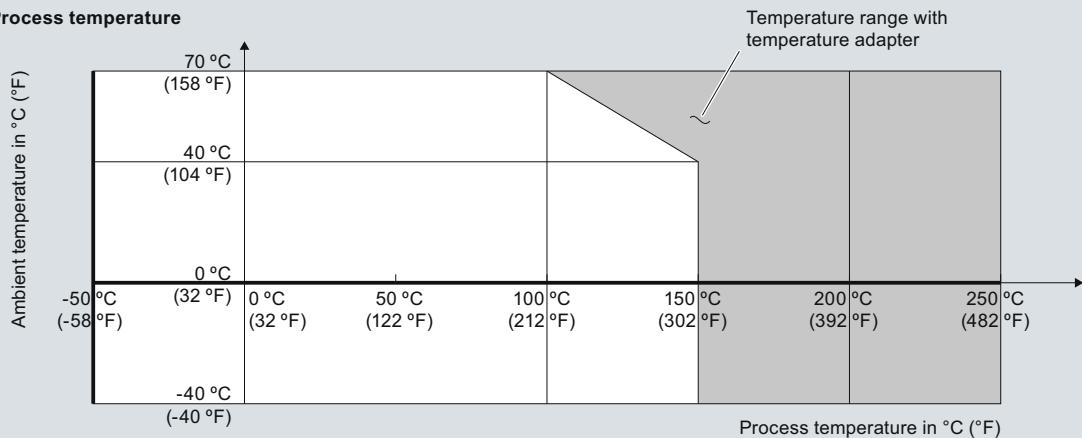
SITRANS LVL200 welded socket and lock fitting, dimensions in mm (inch)

Level Measurement

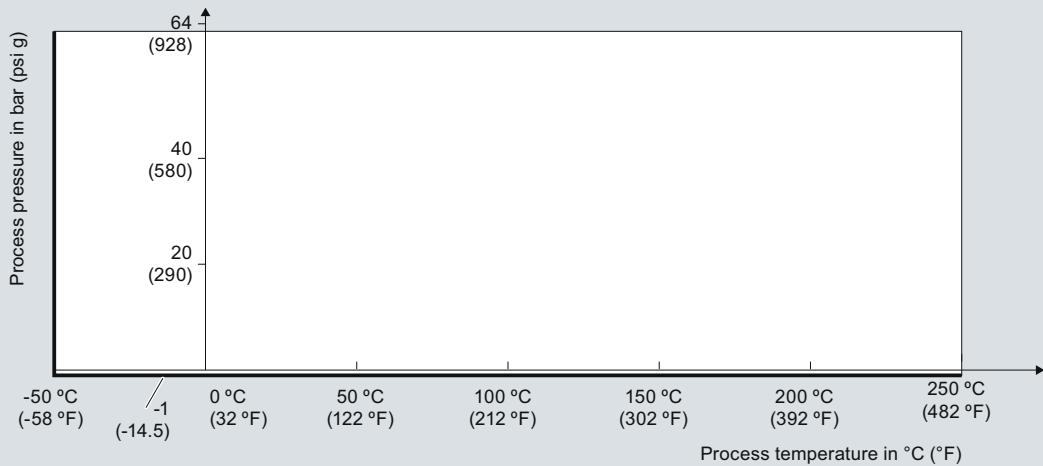
SITRANS LVL200

Characteristic curves

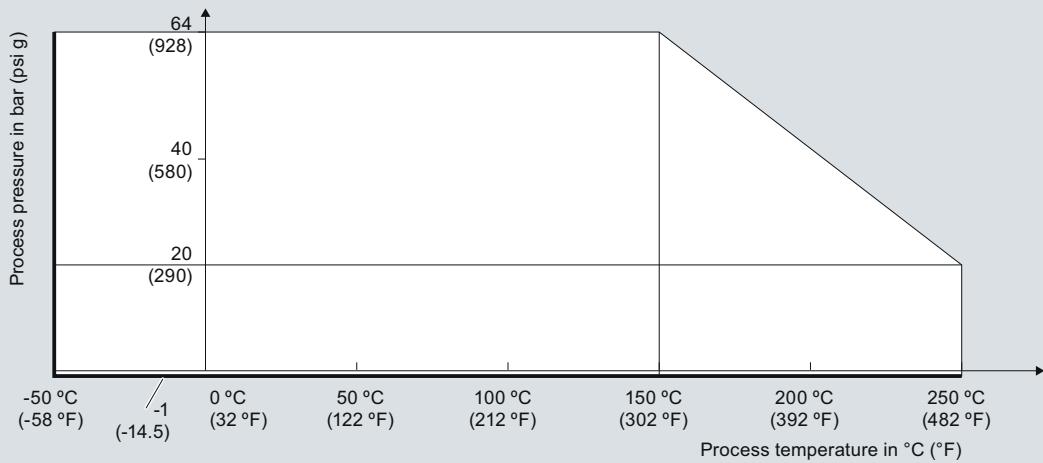
Ambient/Process temperature



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



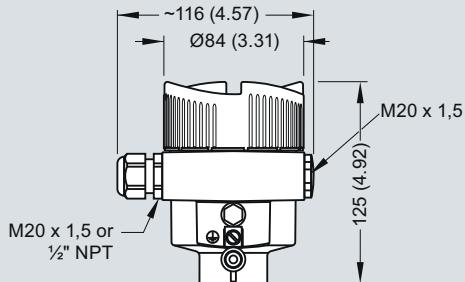
Process pressure with switch position 0.5 g/cm³ (mode switch)



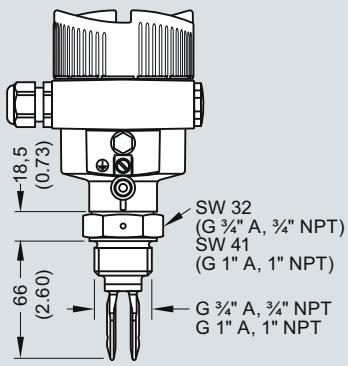
SITRANS LVL200 Process Pressure/Process Temperature/Ambient Temperature derating curves

Dimensional drawings

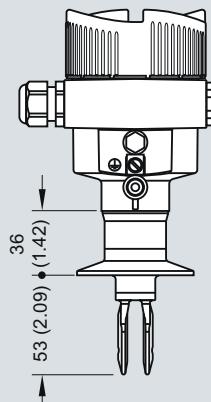
SITRANS LVL200 (Standard)



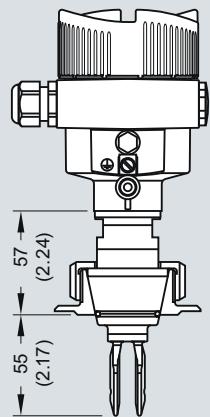
Threaded



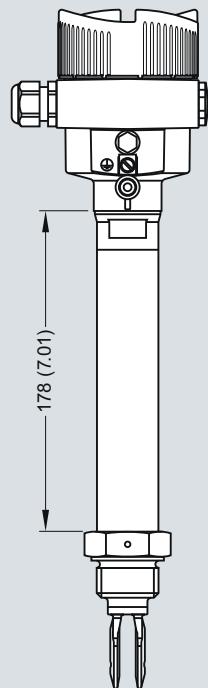
Tri-Clamp



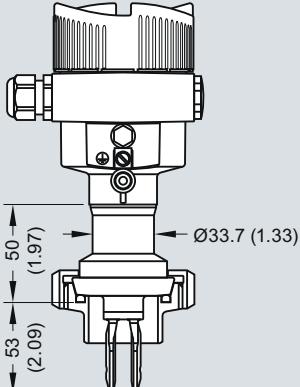
Cone DN25



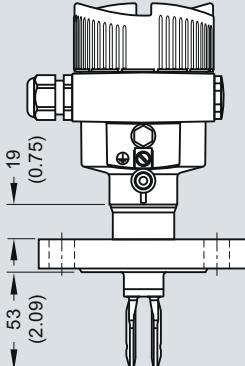
Temperature adapter



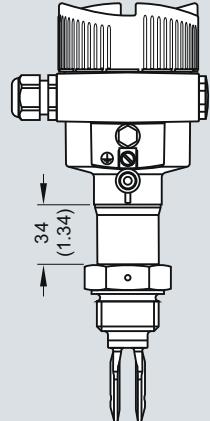
Bolting DN40



Flange



Gas-tight leadthrough

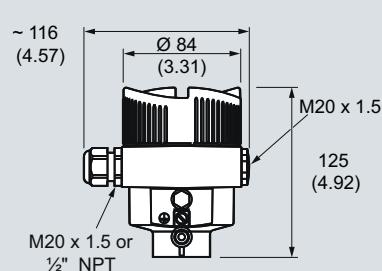


SITRANS LVL200 (Standard), dimensions in mm (inch)

Level Measurement

SITRANS LVL200

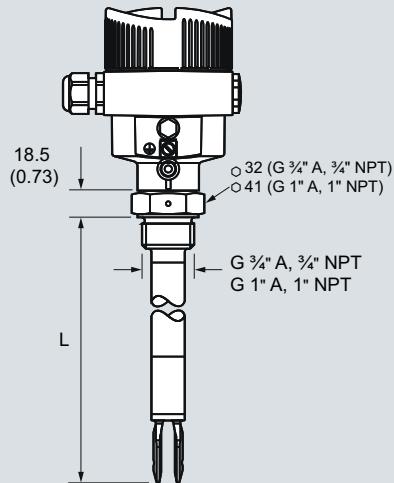
SITRANS LVL200 (Extended)



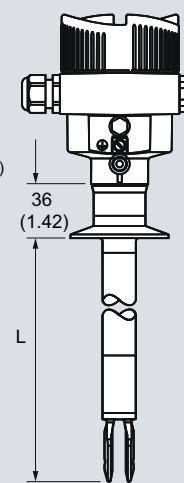
Sensor length (L)

316L, Hastelloy C4 (2.4610)	80 ... 6000 mm (3.15 ... 236.2")
Hastelloy C4 (2.4610) enamelled	80 ... 1500 mm (3.15 ... 59.06")
316L, ECTFE coated	80 ... 3000 mm (3.15 ... 118.1")
316L, PFA coated	80 ... 3000 mm (3.15 ... 118.1")

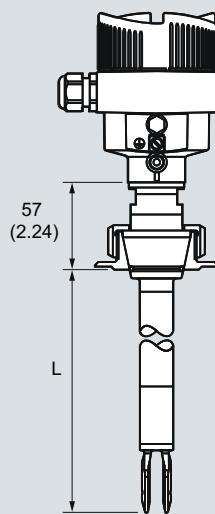
Threaded



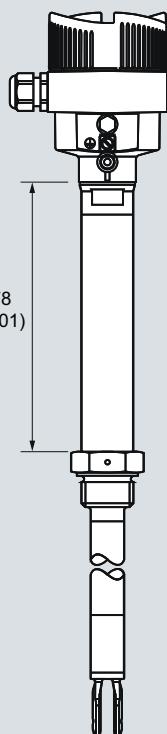
Tri-clamp



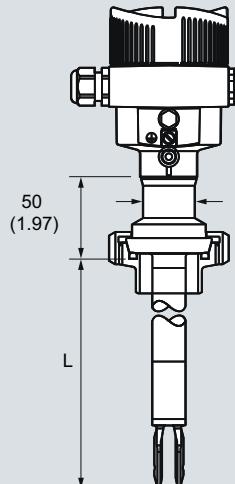
Cone DN25



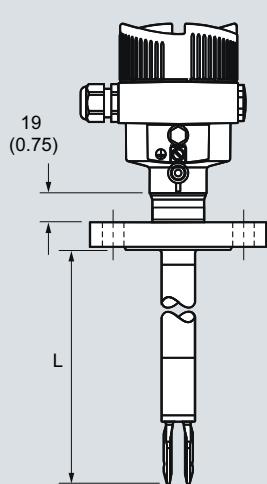
Temperature adapter



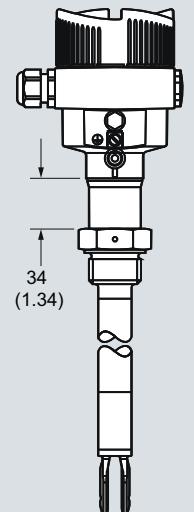
Bolting DN40



Flanged

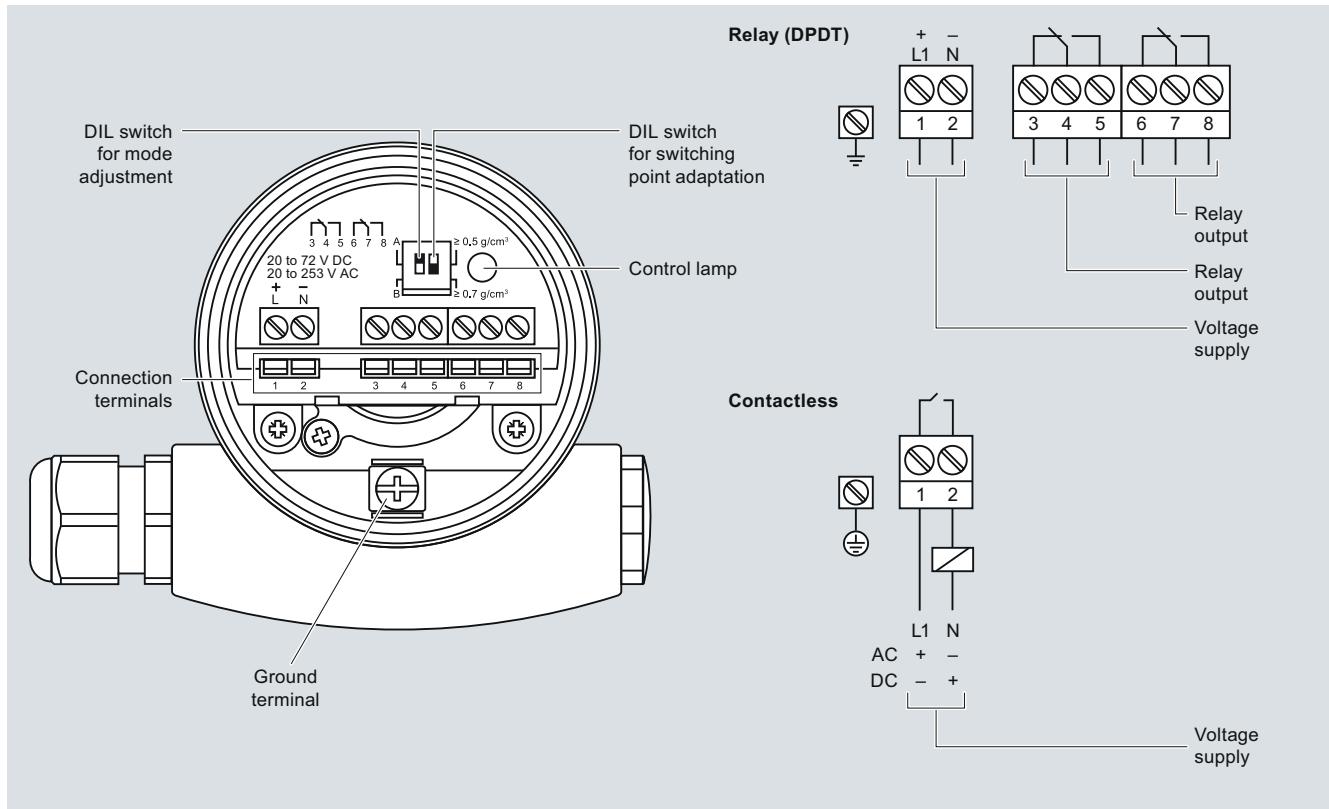


Gas-tight leadthrough



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

Schematics



SITRANS LVL200 connections

FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature Transmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning

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