

Overview



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

Benefits

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

Application

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

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

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

The optional signal conditioner provides a remote test feature to ensure continuous product reliability.

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

Configuration

Horizontal mounting

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

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

Vertical mounting

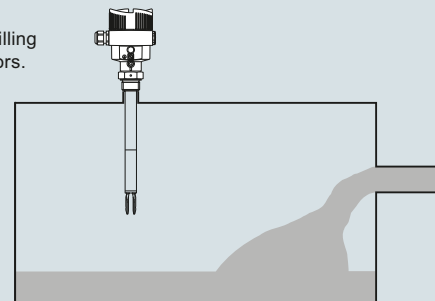
Switching point with lower density

Switching point with higher density

Switching point [approx. 13 (0.51)]

Switching point [approx. 27 (1.06)]

Mount away from filling openings or agitators.



Moisture protection

NOTE:
Welded socket for flush mount optional

Ensure cable gland faces downward to avoid water ingress.

SITRANS LVL200 installation, dimensions in mm (inch)

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Technical specifications

Mode of operation		Design	
Measuring principle	Vibrating point level switch	Material	<ul style="list-style-type: none"> Aluminum die-cast AlSi10Mg, powder-coated, basis: Polyester Stainless steel housing, electropolished 316L Stainless steel housing, precision casting 316L Plastic housing, plastic PBT (Polyester)
Input		• Enclosure	
Measured variable	High and low and demand (via mode switch)	• Tuning fork	316L (1.4404 or 1.4435), Alloy C22
Output		• Extension tube [ø 21.3 mm (0.839 inch)]	316L (1.4404 or 1.4435), Alloy C22
Output options	<ul style="list-style-type: none"> Relay output (DPDT), 2 floating SPDTs Contactless switch 2-wire Namur signal output Transistor (NPN/PNP) 10 ... 55 V DC 8/16 mA 	• Process connection: threaded	<ul style="list-style-type: none"> Standard, Extended: 316L (1.4404 or 1.4435), Alloy C22 High temperature: Inconel 718
Measuring accuracy		• Process connection: flange	<ul style="list-style-type: none"> Standard, Extended: 316L (1.4404 or 1.4435), Alloy C22 High temperature: Inconel 718
Repeatability	0.1 mm (0.004 inch)	• Process seal	316L (1.4404 or 1.4435), 316L with Alloy C22, ECTFE, or PFA coating
Hysteresis	Approx. 2 mm (0.08 inch) with vertical installation	Process connection	Klingsil C-4400
Switching delay	<ul style="list-style-type: none"> Standard, Extended: approx. 500 ms (on/off) High temperature: approx. 1 s (optionally adjustable at factory) 	• Pipe thread, cylindrical (ISO 228 T1)	G ¾" A, G 1" A
Frequency	<ul style="list-style-type: none"> Standard, Extended: Approx. 1 200 Hz High temperature: 1400 Hz 	• Pipe thread, tapered	¾" NPT, 1" NPT, 1½" NPT
Rated operating conditions		• Flanges	DIN from DN 25, ASME from 1"
Installation conditions		• Hygienic fittings	Bolting DN 40 PN 40, 1, 1½, 2, 2½" Tri-Clamp PN 10, conus DN 25 PN 40, Tukenhagen Varivent DN 50 PN 10, SMS
• Location	Indoor/outdoor	Degree of protection	Type 4X/NEMA 4X/IP66/IP67
Ambient conditions		Conduit entry	<ul style="list-style-type: none"> 1 x M20 x 1.5 (cable: ø 5 ... 9 mm), 1 x blind stopper M20 x 1.5; attached 1 x M20 x 1.5 cable entry 1 x ½" NPT cable entry, 1 x blind stopper ½" NPT, 1 x ½" NPT cable entry 1 x M12 x 1; 1 x blind stopper M20 x 1.5
• Ambient temperature	-40 ... +70 °C (-40 ... +158 °F)	Weight	Approx. 0.8 ... 4 kg (0.18 ... 8.82 lb)
• Installation category	III	• Device weight (dependent on process fitting)	
• Pollution degree	2	• Tube extension (extended version)	Approx. 920 g/m (10 oz/ft)
Medium conditions		Power supply	
• Temperature		Supply voltage	20 ... 253 V AC, 50/60 Hz, 20 ... 72 V DC [at U > 60 V DC]
- LVL200S Standard	-50 ... +150 °C (-58 ... +302 °F)	• Relay DPDT	
- LVL200S High temperature option	-50 ... +250 °C (-58 ... +482 °F)	• Contactless	20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
- LVL200E Standard: with 316L/Alloy C22	-50 ... +150 °C (-58 ... +302 °F)	• 2-wire NAMUR	
- LVL200E High temperature option with 316L/Alloy C22	-50 ... +250 °C (-58 ... +482 °F)	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
- LVL200H, High temperature	-196 ... +450 °C (-321 ... +842 °F)	Operating voltage 8/16 mA (via the signal conditioning instrument)	
Pressure (vessel)	<ul style="list-style-type: none"> Standard, Extended: -1 ... 64 bar g (-14.5 ... 928 psi g) High temperature: instrument version up to 160 bar (2 320 psi g): -1 ... 160 bar/-100 ... 16 000 kPa (-14.5 ... 2 320 psi g) <p>Note: The process pressure is dependent on configuration, including process fitting, e.g. flange</p>	• Non-Ex instrument	12 ... 36 V DC
Density	0.7 ... 2.5 g/cm ³ (0.025 ... 0.09 lb/in ³); 0.5 ... 2.5 g/cm ³ (0.018 ... 0.09 lb/in ³) by switching over Density optionally starts at 0.47 cm ³ (0.017 lb/in ³)	• Ex-d instrument (ATEX, FM, CSA)	12 ... 36 V DC
		• Ex-ia instrument (ATEX)	12 ... 29 V DC
		• Ex-ia instrument (FM, CSA)	12 ... 31 V DC

<p>Power consumption</p> <ul style="list-style-type: none"> • Relay DPDT • Contactless <p>• 8/16 mA, two-wire output</p> <p>• 2-wire Namur</p> <p>• Transistor (NPN/PNP) 10 ... 55 V DC</p>	<ul style="list-style-type: none"> • Standard, Extended: 1 ... 8 VA (AC), approx. 1.3 W (DC) • High temperature: 3 VA (AC), 1 W (DC) <p>1 ... 8 VA (AC), approx. 1.3 W (DC)</p> <p>Domestic current requirement approx. 3 mA (via load circuit)</p> <p>Load current</p> <ul style="list-style-type: none"> • Min. 10 mA • Max. 400 mA [with I > 300 mA the ambient temperature can be max. 60 °C (140 °F)] • Max. 4 A up to 40 ms (not WHG specified) <p>Output signal</p> <ul style="list-style-type: none"> • Empty (uncovered) <ul style="list-style-type: none"> - 8 mA • Full (covered) <ul style="list-style-type: none"> - 16 mA • Fault message <ul style="list-style-type: none"> - < 1.8 mA <p>Possible signal conditioning instruments: SITRANS SCSC, SITRANS TCSC</p> <p>Current consumption</p> <ul style="list-style-type: none"> • Falling characteristics ≥ 2.6 mA uncovered/≤ 0.6 mA covered • ≤ 0.6 mA uncovered/≥ 2.6 mA covered • Failure message ≤ 0.6 mA <p>Output</p> <ul style="list-style-type: none"> • Floating transistor output, permanently shortcircuit-proof <p>Load current</p> <ul style="list-style-type: none"> • < 400 mA <p>Voltage loss</p> <ul style="list-style-type: none"> • < 1 V <p>Switching voltage</p> <ul style="list-style-type: none"> • < 55 V DC <p>Blocking current</p> <ul style="list-style-type: none"> • < 10 μA
<p>Certificates and approvals</p>	<ul style="list-style-type: none"> • CE, CSA • Overfill Protection WHG and VLAREM II • FM (Non-Incendive) Class I, Div. 2, Groups A, B, C, D • FM (Explosion-Proof) Class I, Div. 1, Groups A, B, C, D; (Dust Ignition-Proof) Class II, III, Div. 1, Groups E, F, G1 • IECEx d IIC T6 ... T2 Ga/Gb EHEDG • ATEX II 1/2G, 2G EEx d IIC T6 • ATEX II 1G, 1/2G, 2G EEx ia IIC T6 • Shipping approvals • BR-Ex d IIC T6 ... T2 • FDA, 3A, EHEDG • SIL/IEC61508 Declaration of Conformity [SIL-2 (min/max detection)] <p>Please see configuration section below for full list of approvals.</p>

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Standard

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

➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Electronics

Contactless electronic switch
20 ... 250 V AC/DC¹⁾⁹⁾²⁴⁾
Double relay (DPDT) 20 ... 72 V DC/
20 ... 250 V AC²⁴⁾
NAMUR signal⁹⁾
Transistor (NPN/PNP) 10 ... 55 V DC¹⁾²⁵⁾
Two-wire (8/16 mA) 12 ... 36 V DC

Approvals

Without approvals
Overfill protection (WHG)⁹⁾
ATEX II 1G, 1/2G, 2G Ex ia IIC T6⁶⁾
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG⁶⁾⁹⁾
ATEX II 1/2G, 2G Ex d IIC T6 + WHG⁵⁾¹⁵⁾
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approvals⁶⁾¹⁶⁾
ATEX II 1/2G, 2G Ex d IIC T6 + shipping approvals⁵⁾¹⁵⁾
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + ATEX II 1/2 D IP6X T⁶⁾⁷⁾¹⁷⁾
IECEx Ex ia IIC T6⁶⁾¹⁸⁾
Shipping approvals¹⁶⁾
ATEX II 3G Ex nA II T5 ... T1 X¹⁴⁾¹⁹⁾
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G⁶⁾²⁰⁾
FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G²⁾⁵⁾¹⁰⁾
FM (NI) Class I, Div. 2, Groups A, B, C, D²¹⁾
IECEx d IIC T6 ... T2 Ga/Gb⁵⁾¹⁵⁾
CSA (XP) Class I, II, III Div. 1, Groups A, B, C, D, E, F, G⁵⁾¹⁵⁾
CSA (NI) Class I, II, III, Div. 2, Groups A, B, C, D, E, F, G²²⁾
BR-Ex d IIC T6 ... T2⁵⁾²³⁾
CSA (IS) Class I, II, III Div. 1, Groups A, B, C, D, E, F, G⁵⁾⁹⁾
ATEX II 1G, 1/2G, 2G Ex ia IIC T6⁶⁾
ATEX II 1/2D, 2D ExtD A20/21, A21 IP6 T...¹⁹⁾²⁶⁾

Process connection

Thread G $\frac{3}{4}$ " A, PN 64/316L
Thread G $\frac{3}{4}$ " A, PN 64/316L Ra < 0.8 μ m
Thread $\frac{3}{4}$ " NPT, PN 64/316L
Thread $\frac{3}{4}$ " NPT, PN 64/316L Ra < 0.8 μ m
Thread $\frac{3}{4}$ " NPT, PN 64/Alloy 400 (2.4360)
Thread G $\frac{3}{4}$ " A, PN 64/Alloy C22 (2.4602)
Thread $\frac{3}{4}$ " NPT, PN 64/Alloy C22 (2.4602)
Thread G1" A, PN 64/316L
Thread G1" A, PN 64/316L ECTFE coated MB1982⁴⁾
Thread G1" A, PN 64/316L PFA coated⁴⁾
Thread G1" A, PN 64/Alloy 400 (2.4360)
Thread G1" A, PN 64/316L Ra < 0.8 μ m
Thread 1" NPT, PN 64/316L
Thread 1" NPT, PN 64/316L ECTFE coated MB1982⁴⁾
Thread 1" NPT, PN 64/316L PFA-coated⁴⁾
Thread 1" NPT, PN 64/Alloy 400 (2.4360)
Thread 1" NPT, PN 64/316L Ra < 0.8 μ m
Thread G1" A, PN 64/Alloy C22 (2.4602)

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A 0

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5
6

A
B
W
C
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F
G
H
K
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N
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Q
R
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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 2
A 1 3
A 1 4
A 1 5
A 1 6
A 1 7
A 1 8

Selection and Ordering data

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SITRANS LVL200, Standard

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Thread G1" A, PN 64/Alloy C22 (2.4602)
Ra < 0.3 μ m

Thread G1 $\frac{1}{2}$ " A, PN 64/316L
Thread G1 $\frac{1}{2}$ " A, PN 64/316L Ra < 0.8 μ m
Thread G1 $\frac{1}{2}$ " A, PN 64/Alloy C22 (2.4602)
Thread 1" NPT, PN 64/Alloy C22 (2.4602)
Thread 1 $\frac{1}{2}$ " NPT, PN 64/316L

Thread 1 $\frac{1}{2}$ " NPT, PN 64/316L Ra < 0.8 μ m
Thread 1 $\frac{1}{2}$ " NPT, PN 64/Alloy C22 (2.4602)
Thread G2" A, PN 64/316L

Thread M27 x 1.5, PN 64/316L
Conus DN 25, PN 40/316L Ra < 0.3 μ m
Conus DN 25, PN 40/316L Ra < 0.8 μ m
Conus DN 25, PN 40/ECTFE (ZB3033)⁴⁾
Conus M52, PN 40/316L
Conus M52, PN 40/316L Ra < 0.3 μ m

Conus M52, PN 40/316L Ra < 0.8 μ m
Tri-Clamp 1", PN 16/316L Ra < 0.3 μ m
Tri-Clamp 1", PN 16/Alloy C22 (2.4602)
Tri-Clamp 1", PN 16/316L Ra < 0.8 μ m
Tri-Clamp 1 $\frac{1}{2}$ ", PN 16/316L Ra < 0.3 μ m
Tri-Clamp 1 $\frac{1}{2}$ ", PN 16/Alloy C22 (2.4602)
Tri-Clamp 1 $\frac{1}{2}$ ", PN 16/316L Ra < 0.8 μ m
Tri-Clamp 2", PN 16/316L Ra < 0.3 μ m
Tri-Clamp 2", PN 16/Alloy C22 (2.4602)

Tri-Clamp 2", PN 16/316L Ra < 0.8 μ m
Tri-Clamp 2 $\frac{1}{2}$ ", PN 10/316L Ra < 0.3 μ m
Tri-Clamp 2 $\frac{1}{2}$ ", PN 10/316L Ra < 0.8 μ m
Tri-Clamp 3", PN 10/316L Ra < 0.3 μ m
Tri-Clamp 3", PN 10/316L Ra < 0.8 μ m
Bolting DN 32, PN 40 DIN11851/316L Ra < 0.3 μ m
Bolting DN 32, PN 40 DIN11851/316L Ra < 0.8 μ m
Bolting DN 25, PN 40 DIN11851/316L Ra < 0.3 μ m
Bolting DN 25, PN 40 DIN11851/316L Ra < 0.8 μ m
Bolting DN 40, PN 40 DIN11851/316L Ra < 0.3 μ m
Bolting DN 40, PN 40 DIN11851/316L Ra < 0.8 μ m
Bolting DN 40, PN 40 DIN11864-1 A/316L Ra < 0.8 μ m ZB3052

Bolting DN 50, PN 25 DIN11851/316L Ra < 0.3 μ m
Bolting DN 50, PN 25 DIN11851/316L Ra < 0.8 μ m
Bolting DN 50, PN 25 DIN11864-1 A/316L Ra < 0.8 μ m ZB3052

Hygienic w. compr. nut F40, PN 25/316L
Hygienic w. compr. nut F40, PN 25/316L Ra < 0.3 μ m
Hygienic w. compr. nut F40, PN 25/316L Ra < 0.8 μ m



Varivent N50-40/316L Ra < 0.3 μ m
Varivent N50-40/316L Ra < 0.8 μ m
Varivent N125/100/316L Ra < 0.8 μ m
DRD flange, PN 40/316L ZB3007
SMS DN 38/316L Ra < 0.8 μ m⁴⁾
SMS DN 51, PN 6/316L Ra < 0.8 μ m⁴⁾

Swagelok VCR screwing ZG2579, PN 64/316L
Neumo biocontrol size 25, PN 16/316L Ra < 0.8 μ m
Neumo biocontrol size 50, PN 16/316L Ra < 0.8 μ m⁴⁾
Neumo biocontrol size 65, PN 16/316L Ra < 0.8 μ m
Neumo biocontrol size 80, PN 16/316L Ra < 0.8 μ m
SÜDMO DN 50, PN 10/316L Ra < 0.8 μ m

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A 0

A 2 0
A 2 1
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Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Standard Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5746- 	SITRANS LVL200, Standard Compact vibrating level switch for material detection in liquid and slurry applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5746- 
Small flange DN 25, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 0	Flange DN 50, PN 64 Form L, DIN 2501/316L	B 4 3
Small flange DN 40, PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 1	Flange DN 50, PN 100 Form E, DIN 2501/316L	B 4 4
Ingold connection, PN16 / 316 L Ra < 0.8 µm (acc. to MB2523)	A 8 2	Flange DN 50, PN 100 Form L, DIN 2501/316L	B 4 5
Ingold connection, PN 16/Alloy C22 (2.4602) Ra < 0.8 µm (acc. to MB6017)	A 8 3	Flange DN 65, PN 40 Form C, DIN 2501/316L	B 4 6
Terminal DN 33.7 PN 40 DIN11864-3-A-/316L BN2 Ra < 0.8 µm ⁴⁾	A 8 4	Flange DN 65, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 4 7
Hygienic fl. DN 50 PN 16 DIN11864-2-A-/316L Ra < 0.8 µm	A 8 5	Flange DN 65, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 4 8
Flange DN 25, PN 6 Form C, DIN 2501/316L	A 8 6	Flange DN 65, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 0
Flange DN 25, PN 6 Form C, DIN 2501/PFA ⁴⁾	A 8 7	Flange DN 65, PN 40 Form F, DIN 2501/316L	B 5 1
Flange DN 25, PN 40 Form C, DIN 2501/316L	A 8 8	Flange DN 65, PN 64 Form E, DIN 2501/316L	B 5 2
Flange DN 25, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 0 0	Flange DN 80, PN 40 Form C, DIN 2501/316L	B 5 3
Flange DN 25, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 0 1	Flange DN 80, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 5 4
Flange DN 25, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 0 2	Flange DN 80, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 5 5
Flange DN 25, PN 40 Form C, DIN 2501/Enamelled	B 0 3	Flange DN 80, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 6
Flange DN 25, PN 40 Form D, DIN 2501/316L	B 0 4	Flange DN 80, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 5 7
Flange DN 25, PN 40 Form F, DIN 2501/316L	B 0 5	Flange DN 80, PN 40 Form F, DIN 2501/316L	B 5 8
Flange DN 25, PN 40 Form N, DIN 2501/316L	B 0 6	Flange DN 80, PN 40 Form N, DIN 2501/316L	B 6 0
Flange DN 25, PN 40 Form N, DIN 2501/ Alloy C22 (2.4602)	B 0 7	Flange DN 100, PN 16 Form C, DIN 2501/316L	B 6 2
Flange DN 25, PN 40 Form N, DIN 2501/ Alloy 400 (2.4360) solid	B 0 8	Flange DN 100, PN 16 Form C, DIN 2501/ Alloy C22 (2.4602)	B 6 3
Flange DN 25, PN 40 V13, DIN 2501/316L	B 1 0	Flange DN 100, PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 6 4
Flange DN 32, PN 40 Form C, DIN 2501/316L	B 1 1	Flange DN 100, PN 16 Form C, DIN 2501/PFA ⁴⁾	B 6 5
Flange DN 32, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 2	Flange DN 100, PN 16 Form C, DIN 2501/ Enamelled ³⁾	B 6 6
Flange DN 40, PN 6 Form C, DIN 2501/316L	B 1 3	Flange DN 100, PN 16 Form D, DIN 2501/316L	B 6 7
Flange DN 40, PN 6 Form C, DIN 2501/ECTFE ⁴⁾	B 1 4	Flange DN 100, PN 16 Form F, DIN 2501/316L	B 6 8
Flange DN 40, PN 40 Form C, DIN 2501/316L	B 1 5	Flange DN 100, PN 16 Form N, DIN 2501/316L	B 7 0
Flange DN 40, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 1 6	Flange DN 100, PN 40 Form C, DIN 2501/316L	B 7 1
Flange DN 40, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 7	Flange DN 100, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 7 2
Flange DN 40, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 1 8	Flange DN 100, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 7 3
Flange DN 40, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 2 0	Flange DN 100, PN 40 Form C, DIN 2501/ Enamelled ³⁾	B 7 4
Flange DN 40, PN 40 Form F, DIN 2501/316L	B 2 1	Flange DN 100, PN 40 Form F, DIN 2501/316L	B 7 5
Flange DN 40, PN 40 Form N, DIN 2501/316L	B 2 2	Flange DN 100, PN 40 Form N, DIN 2501/316L	B 7 6
Flange DN 40, PN 40 Form E, DIN 2501/316L	B 2 3	Flange DN 100, PN 40 V13, DIN 2501/316L	B 7 7
Flange DN 40, PN 40 V13, DIN 2501/316L	B 2 4	Flange DN 100, PN 64 Form E, DIN 2501/316L	B 7 8
Flange DN 50, PN 40 Form C, DIN 2501/316L	B 2 5	Flange DN 100, PN 100 Form E, DIN 2501/316L	B 8 0
Flange DN 50, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	B 2 6	Flange DN 100, PN 100 Form L, DIN 2501/316L	B 8 1
Flange DN 50, PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 2 7	Flange DN 125, PN 16 Form F, DIN 2501/316L	B 8 2
Flange DN 50, PN 40 Form C, DIN 2501/ ECTFE (ZB3108) ⁴⁾	B 2 8	Flange DN 125, PN 40 Form C, DIN 2501/316L	B 8 3
Flange DN 50, PN 40 Form C, DIN 2501/PFA ⁴⁾	B 3 0	Flange DN 125, PN 40 Form N, DIN 2512/ 316L	B 8 4
Flange DN 50, PN 40 Form D, DIN 2501/316L	B 3 1	Flange DN 150, PN 16 Form C, DIN 2501/316L	B 8 5
Flange DN 50, PN 40 Form D, DIN 2501/ Alloy C22 (2.4602)	B 3 2	Flange DN 150, PN 16 Form C, DIN 2501/ Alloy C22 (2.4602)	B 8 6
Flange DN 50, PN 40 Form F, DIN 2501/316L	B 3 3	Flange DN 150, PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 8 7
Flange DN 50, PN 40 Form N, DIN 2501/316L	B 3 4	Flange DN 150, PN 16 Form C, DIN 2501/PFA ⁴⁾	B 8 8
Flange DN 50, PN 40 Form N, DIN 2501/ Alloy C22 (2.4602)	B 3 5	Flange DN 150, PN 16 Form D, DIN 2501/316L	C 0 0
Flange DN 50, PN 40 Form E, DIN 2501/316L	B 3 6	Flange DN 150, PN 40 Form C, DIN 2501/316L	C 0 1
Flange DN 50, PN 40 V13, DIN 2501/316L	B 3 7	Flange DN 150, PN 40 Form C, DIN 2501/ Alloy C22 (2.4602)	C 0 2
Flange DN 50, PN 40 R13, DIN 2501/316L	B 3 8	Flange DN 150, PN 40 Form F, DIN 2501/316L	C 0 3
Flange DN 50, PN 64 Form F, DIN 2501/316L	B 4 0	Flange DN 150, PN 40 Form N, DIN 2512/316L	C 0 4
Flange DN 50, PN 64 Form N, DIN 2501/ Alloy C22 (2.4602)	B 4 1	Flange DN 200, PN 10 Form C, DIN 2501/ECTFE ⁴⁾	C 0 5
Flange DN 50, PN 64 Form C, DIN 2501/316L	B 4 2	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

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Standard

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

Flange DN 25, PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 08
Flange DN 25, PN 40 Form B1, EN/ 316L/ PFA ⁴⁾	C 10
Flange DN 25, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 11
Flange DN 25, PN 40 Form B2, EN 1092-1/316L	C 12
Flange DN 25, PN 40 Form F, EN 1092-1/316L	C 13
Flange DN 25, PN 63 Form B1, EN 1092-1/316L	C 14
Flange DN 25, PN 100 Form B2, EN 1092-1/316L	C 15
Flange DN 40, PN 40 Form B1, EN/ 316L	C 16
Flange DN 40, PN 40 Form B1, EN 1092-1/PFA ⁴⁾	C 17
Flange DN 40, PN 40 Form B2, EN/316L	C 18
Flange DN 50, PN 40 Form B1, EN/316L	C 20
Flange DN 50, PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 21
Flange DN 50, PN 40 Form B1, EN 1092-1/Alloy 400 (2.4360) ZB2977	C 22
Flange DN 50, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 23
Flange DN 50, PN 40 Form B1, EN/ 316L/PFA ⁴⁾	C 24
Flange DN 50, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 25
Flange DN 50, PN 40 Form C, EN 1092-1/316L	C 26
Flange DN 50, PN 40 Form D, EN/316L	C 27
Flange DN 50, PN 40 Form D, EN 1092-1/Alloy C22 (2.4602)	C 28
Flange DN 50, PN 40 Form B2, EN 1092-1/316L	C 30
Flange DN 50, PN 40 Form E, EN 1092-1/316L	C 31
Flange DN 80, PN 40 Form B1, EN 1092-1/316L	C 32
Flange DN 80, PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 33
Flange DN 80, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 34
Flange DN 80, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 35
Flange DN 80, PN 40 Form B2, EN 1092-1/316L	C 36
Flange DN 100, PN 16 Form B1, EN 1092-1/316L	C 37
Flange DN 100, PN 16 Form B1, EN 1092-1/Alloy C22 (2.4602)	C 38
Flange DN 100, PN 16 Form B1, EN 1092-1/Enamelled ³⁾	C 40
Flange DN 100, PN 40 Form B1, EN 1092-1/316L	C 41
Flange DN 100, PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 42
Flange DN 100, PN 40 Form C, EN 1092-1/316L	C 43
Flange DN 100, PN 63 Form B2, EN 1092-1/316L	C 44
Flange DN 150, PN 16 Form B1, EN 1092-1/316L	C 45
Flange DN 150, PN 16 Form B1, EN 1092-1/PFA ⁴⁾	C 46
Flange DN 150, PN 40 Form B1, EN 1092-1/316L	C 47
Flange DN 150, PN 40 Form B1, EN 1092-1/ECTFE ⁴⁾	C 48
Flange DN 150, PN 40 Form B2, EN 1092-1/316L	C 50
Flange 1" 150 lb ASME B16.5/316L	C 51
Flange 1" 150 lb RF, ASME B16.5/Alloy C22 (2.4602)	C 52
Flange 1" 150 lb RF, ASME B16.5/Alloy 400 (2.4360) ZB2977	C 53
Flange 1" 150 lb RF, ASME B16.5/ECTFE ⁴⁾	C 54
Flange 1" 150 lb RF, ASME B16.5/PFA ⁴⁾	C 55
Flange 1" 150 lb RF, ASME B16.5/Enamelled ³⁾	C 56
Flange 1" 300 lb RF, ASME B16.5/316L	C 57
Flange 1" 300 lb RF, ASME B16.5/ECTFE ⁴⁾	C 58
Flange 1" 600 lb RF, ASME B16.5/316L	C 60
Flange 1½" 150 lb RF, ASME B16.5/316L	C 61

Selection and Ordering data

Article No.

SITRANS LVL200, Standard

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

Flange 1½" 150 lb RF, ASME B16.5/Alloy C22 (2.4602)	C 62
Flange 1½" 150 lb RF, ASME B16.5/ECTFE ⁴⁾	C 63
Flange 1½" 150 lb RF, ASME B16.5/PFA ⁴⁾	C 64
Flange 1½" 150 lb RF, ASME B16.5 Enamelled ³⁾	C 65
Flange 1½" 150 lb FF, ASME B16.5/ECTFE ⁴⁾	C 66
Flange 1½" 300 lb RF, ASME B16.5/316L	C 67
Flange 1½" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) ZB2977	C 68
Flange 1½" 300 lb RF, ASME B16.5/ECTFE ³⁾	C 70
Flange 1½" 600 lb RF, ASME B16.5/316L	C 71
Flange 2" 150 lb RF, ASME B16.5/316L	C 72
Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602)	C 73
Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360) ZB2977	C 74
Flange 2" 150 lb RF, ASME B16.5/ECTFE ⁴⁾	C 75
Flange 2" 150 lb RF, ASME B16.5/PFA ⁴⁾	C 76
Flange 2" 150 lb RF, ASME B16.5/Enamelled ³⁾	C 77
Flange 2" 150 lb FF, ASME B16.5/316L	C 78
Flange 2" 150 lb FF, ASME B16.5/ECTFE ⁴⁾	C 80
Flange 2" 150 lb SG (small groove), ASME B16.5/316L	C 81
Flange 2" 300 lb RF, ASME B16.5/316L	C 82
Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602)	C 83
Flange 2" 300 lb RF, ASME B16.5/ECTFE ⁴⁾	C 85
Flange 2" 300 lb RF, ASME B16.5/PFA ⁴⁾	C 86
Flange 2" 300 lb RF, ASME B16.5 Enamelled ³⁾	C 87
Flange 2" 300 lb RJF, ASME B16.5/316L	C 88
Flange 2" 300 lb ST, ASME B16.5/316L	D 00
Flange 2" 300 lb LG (large groove), ASME B16.5/316L	D 01
Flange 2" 300 lb LT, ASME B16.5/316L	D 02
Flange 2" 600 lb RF, ASME B16.5/316L	D 03
Flange 2" 600 lb RF, ASME B16.5/Alloy 400 (2.4360) ZB2977	D 04
Flange 2" 600 lb RF, ASME B16.5/ECTFE ⁴⁾	D 05
Flange 2" 600 lb RJF, ASME B16.5/316L	D 06
Flange 2" 600 lb LG, ASME B16.5/316L	D 07
Flange 2" 900 lb RJF, ASME B16.5/316L	D 08
Flange 2½" 150 lb RF, ASME B16.5/316L	D 10
Flange 2½" 300 lb RF, ASME B16.5/316L	D 11
Flange 3" 150 lb RF, ASME B16.5/316L	D 12
Flange 3" 150 lb RF, ASME B16.5/Alloy C22 (2.4602)	D 13
Flange 3" 150 lb RF, ASME B16.5/ECTFE ⁴⁾	D 14
Flange 3" 150 lb RF, ASME B16.5/PFA ⁴⁾	D 15
Flange 3" 150 lb RF, ASME B16.5/Enamelled ³⁾	D 16
Flange 3" 150 lb FF, ASME B16.5/316L	D 17
Flange 3" 150 lb FF, ASME B16.5/ECTFE ⁴⁾	D 18
Flange 3" 150 lb FF, ASME B16.5/PFA ⁴⁾	D 20
Flange 3" 300 lb RF, ASME B16.5/316L	D 21
Flange 3" 300 lb RF, ASME B16.5/Alloy C22 (2.4602)	D 22
Flange 3" 300 lb RF, ASME B16.5/ECTFE ⁴⁾	D 23
Flange 3" 300 lb RF, ASME B16.5/PFA ⁴⁾	D 24
Flange 3" 300 lb RF, ASME B16.5/Enamelled ³⁾	D 25
Flange 3" 600 lb RF, ASME B16.5/316L	D 26
Flange 3½" 150 lb RF, ASME B16.5/316L	D 27

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

- 1) Available only with Adapter/Process temperature options 1, 3, 4, and 5.
- 2) Available only with Housing/Protection/Cable option B.
- 3) Available only with Adapter/Process Temperature options 1, 2, and 4.
- 4) Not available with Adapter/Process Temperature options 2, 3, and 5.
- 5) Not available with Adapter/Process Temperature options 2, 4, and 5.
- 6) Available only with Electronics options 4 and 6.
- 7) Not available with ECTFE coated probe options.
- 8) Listed Certificates are not available with all configurations please contact factory for more information.
- 9) Not available with Housing/Protection/Cable Option V.
- 10) Not available with PFA and ECTFE coating options.
- 11) Available only with Approval option A.
- 12) Available only with Relay Electronic options and Non-hazardous Approval options.
- 13) Available only with Enamelled Process connection options.
- 14) Available only with Electronic options 4, 5, and 6.
- 15) Available only with Aluminum Housing/Protection/Cable options.
- 16) Not available with Stainless Steel (electropolished) Housing/Protection/Cable options and certain glands.
- 17) Not available with Plastic and Stainless Steel (electropolished) Housing/Protection/Cable options and certain glands.
- 18) Not available with Housing/Protection/Cable options D, and V.
- 19) Not available with Plastic Housing/Protection/Cable options and certain glands.
- 20) Not available with Housing/Protection/Cable options A, E, G, and V.
- 21) Available only with Housing/Protection/Cable options B, D, F, and H.
- 22) Not available with Housing/Protection/Cable options C and V.
- 23) Available only with Housing/Protection/Cable options A, B, and H.
- 24) Not available with Approval options C, E, G, H, L, N, V, and W.
- 25) Not available with Approval options C, E, G, H, N, V, and W.
- 26) Available only with Electronic option 4.

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-	SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747-
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			
Electronics Contactless electronic switch 20 ... 250 V AC/DC ¹⁾⁹⁾¹⁴⁾ Double relay (DPDT) 20 ... 250 V AC ¹⁴⁾ NAMUR signal ⁹⁾ Transistor (NPN/PNP) 10 ... 55 V DC ¹⁾¹⁵⁾ Two-wire (8/16 mA) 12 ... 36 V DC	1 2 4 5 6	Thread 1" NPT, PN 64/Alloy 400 (2.4360) Thread 1" NPT, PN 64/316L Ra < 0.8 µm Thread G1" A, PN 64/Alloy C22 (2.4602) Thread G1½" A, PN 64/316L Thread G1½" A, PN 64/316L Ra < 0.8 µm Thread G1½" A, PN 64/Alloy C22 (2.4602) Thread 1" NPT, PN 64/Alloy C22 (2.4602) Thread 1½" NPT, PN 64/316L Thread 1½" NPT, PN 64/316L Ra < 0.8 µm Thread 1½" NPT, PN 64/Alloy C22 (2.4602) Thread G2" A, PN 64/316L Thread M27 x 1.5 PN 64/316L Cyl. socket/316Ti/1.4581 ECTFE coated ZB2984 ⁴⁾ Conus DN 25 PN 40/316L Ra < 0.3 µm Conus DN 25 PN 40/316L Ra < 0.8 µm Conus DN 25 PN 40/ECTFE (ZB3033) ⁴⁾ Conus M52 PN 40/316L Conus M52 PN 40/316L Ra < 0.3 µm Conus M52 PN 40/316L Ra < 0.8 µm Tri-Clamp 1" PN 16/316L Ra < 0.3 µm Tri-Clamp 1" PN 16/Alloy C22 (2.4602) Tri-Clamp 1" PN 16/316L Ra < 0.8 µm Tri-Clamp 1½" PN 16/316L Ra < 0.3 µm Tri-Clamp 1½" PN 16/Alloy C22 (2.4602) Tri-Clamp 1½" PN 16/316L Ra < 0.8 µm Tri-Clamp 2" PN 16/316L Ra < 0.3 µm Tri-Clamp 2" PN 16/Alloy C22 (2.4602) Tri-Clamp 2" PN 16/316L Ra < 0.8 µm Tri-Clamp 2½" PN 10/316L Ra < 0.3 µm Tri-Clamp 2½" PN 10/316L Ra < 0.8 µm Tri-Clamp 3" PN 10/316L Ra < 0.3 µm Tri-Clamp 3" PN 10/316L Ra < 0.8 µm Bolting DN 32 PN 40 DIN11851/316L Ra < 0.3 µm Bolting DN 32 PN 40 DIN11851/316L Ra < 0.8 µm Bolting DN 25 PN 40 DIN11851/316L Ra < 0.3 µm Bolting DN 25 PN 40 DIN11851/316L Ra < 0.8 µm Bolting DN 40 PN 40 DIN11851/316L Ra < 0.3 µm Bolting DN 40 PN 40 DIN11851/316L Ra < 0.8 µm Bolting DN 40 PN 40 DIN11864-1 A/316L Ra < 0.8 µm ZB3052 Bolting DN 50 PN 25 DIN11851/316L Ra < 0.3 µm Bolting DN 50 PN 25 DIN11851/316L Ra < 0.8 µm Bolting DN 50 PN 25 DIN11864-1 A/316L Ra < 0.8 µm ZB3052 Hygienic w.compr.nut F40 PN 25/316L Hygienic w.compr.nut F40 PN 25/316L Ra < 0.3 µm Hygienic w.compr.nut F40 PN 25/316L 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 PN 40/316L ZB3007 SMS DN 38/316L Ra < 0.8 µm ⁴⁾ SMS DN 51 PN 6/316L Ra < 0.8 µm ⁴⁾ Swagelok VCR screwing ZG2579 PN 64/316L Neumo biocontrol size 25 PN 16/316L Ra < 0.8 µm Neumo biocontrol size 50 PN 16/316L Ra < 0.8 µm SÜDMO DN 50 PN 10/316L Ra < 0.8 µm	A 17 A 18 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 50 A 51 A 52 A 53 A 54 A 55 A 56 A 57 A 58 A 60 A 61 A 62 A 63 A 64 A 65 A 66 A 67 A 68 A 70 A 71 A 72 A 73 A 74 A 75 A 76 A 80
Approvals Without approvals Overfill protection (WHG) ⁹⁾ ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁶⁾ ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG ⁶⁾⁹⁾ ATEX II 1/2G, 2G Ex d IIC T6 + WHG ⁵⁾⁷⁾¹⁶⁾ ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approvals ⁶⁾¹⁷⁾ ATEX II 1/2G, 2G Ex d IIC T6 + shipping approvals ⁵⁾⁷⁾¹⁶⁾ ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + ATEX II 1/2D IP6X T ⁶⁾⁸⁾¹⁸⁾ IECEx Ex ia IIC T6 ⁶⁾¹⁹⁾ Shipping approvals ¹⁷⁾ ATEX II 3G Ex nA II T5 ... T1 X FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁶⁾²⁰⁾ FM (XP) Class I, Div. 1, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ²⁾⁵⁾ FM (NI) Class I, Div. 2, Groups A, B, C, D ²¹⁾ IECEx d IIC T6 ... T2 Ga/Gb ⁵⁾⁷⁾¹⁶⁾ CSA(XP) Class I,II,III Div. 1, Groups A, B, C, D, E, F, G ²⁾⁵⁾⁷⁾ CSA(NI)Class I,II,III, Div. 2, Groups A, B, C, D, E, F, G ²²⁾ BR-Ex d IIC T6 ... T2 ⁵⁾¹⁸⁾ CSA (IS) Class I, II, III Div. 1, Groups A, B, C, D, E, F, G ⁵⁾⁹⁾ ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁶⁾ ATEX II 1/2D, 2D ExtD A20/21, A21 IP6 T... ²³⁾²⁴⁾	A B W C D E F G H K L N P Q R S T U V W X	NOTE: When selecting a Process connection option, process connection coating must match the extension coating and the material and surface roughness type.	
Process connection Thread G¾" A, PN 64/316L Thread G¾" A, PN 64/316L Ra < 0.8 µm Thread ¾" NPT, PN 64/316L Thread ¾" NPT, PN 64/316L Ra < 0.8 µm Thread ¾" NPT, PN 64/Alloy 400 (2.4360) Thread G¾" A, PN 64/Alloy C22 (2.4602) Thread ¾" NPT, PN 64/Alloy C22 (2.4602) Thread G1" A, PN 64/316L Thread G1" A, PN 64/316L ECTFE coated MB1982 ⁴⁾ Thread G1" A, PN 64/316L PFA coated ⁴⁾ Thread G1" A, PN 64/Alloy 400 (2.4360) Thread G1" A, PN 64/316L Ra < 0.8 µm Thread 1" NPT, PN 64/316L Thread 1" NPT, PN 64/316L ECTFE coated MB1982 ⁴⁾ Thread 1" NPT, PN 64/316L PFA coated ⁴⁾	A 00 A 01 A 02 A 03 A 04 A 05 A 06 A 07 A 08 A 10 A 11 A 13 A 14 A 15 A 16		

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

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

	7ML5747-
Small flange DN 25 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 1
Small flange DN 40 PN 1.5 DIN 28403/316L pol. Ra < 0.8 µm	A 8 2
Ingold connection PN 16/316L Ra < 0.8 µm	A 8 3
Collar clamp connection DN33,7 PN40 Form A, DIN 11864-3/1.4435 (BN2, Ra < 0.8 µm)	A 8 4
Collar flange DN50 PN16 Form A, DIN 11864-2/316L (Ra < 0.8 µm)	A 8 5
Flange DN 25 PN 6 Form C, DIN 2501/316L	A 8 6
Flange DN 25 PN 6 Form C, DIN 2501/PFA ⁴⁾	A 8 7
Flange DN 25 PN 40 Form C, DIN 2501/316L	A 8 8
Flange DN 25 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 0 0
Flange DN 25 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 0 1
Flange DN 25 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 0 2
Flange DN 25 PN 40 Form D, DIN 2501/316L	B 0 3
Flange DN 25 PN 40 Form F, DIN 2501/316L	B 0 4
Flange DN 25 PN 40 Form N, DIN 2501/316L	B 0 5
Flange DN 25 PN 40 Form N, DIN 2501/Alloy 400 (2.4360) solid	B 0 7
Flange DN 25 PN 40 V13, DIN 2501/316L	B 0 8
Flange DN 32 PN 40 Form C, DIN 2501/316L	B 1 0
Flange DN 32 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 1
Flange DN 40 PN 6 Form C, DIN 2501/316L	B 1 2
Flange DN 40 PN 6 Form C, DIN 2501/ECTFE ⁴⁾	B 1 3
Flange DN 40 PN 40 Form C, DIN 2501/316L	B 1 4
Flange DN 40 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 1 5
Flange DN 40 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 1 6
Flange DN 40 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 1 7
Flange DN 40 PN 40 Form C, DIN 2501/Enamelled ³⁾	B 1 8
Flange DN 40 PN 40 Form F, DIN 2501/316L	B 2 0
Flange DN 40 PN 40 Form N, DIN 2501/316L	B 2 1
Flange DN 40 PN 40 Form E, DIN 2501/316L	B 2 2
Flange DN 40 PN 40 V13, DIN 2501/316L	B 2 3
Flange DN 50 PN 40 Form C, DIN 2501/316L	B 2 4
Flange DN 50 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 2 5
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 2 6
Flange DN 50 PN 40 Form C, DIN 2501/ECTFE (ZB3108) ⁴⁾	B 2 7
Flange DN 50 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 2 8
Flange DN 50 PN 40 Form D, DIN 2501/316L	B 3 0
Flange DN 50 PN 40 Form D, DIN 2501/Alloy C22 (2.4602)	B 3 1
Flange DN 50 PN 40 Form F, DIN 2501/316L	B 3 2
Flange DN 50 PN 40 Form N, DIN 2501/316L	B 3 3
Flange DN 50 PN 40 Form N, DIN 2501/Alloy C22 (2.4602) solid	B 3 4
Flange DN 50 PN 40 Form E, DIN 2501/316L	B 3 5
Flange DN 50 PN 40 V13, DIN 2501/316L	B 3 6
Flange DN 50 PN 40 R13, DIN 2501/316L	B 3 7
Flange DN 50 PN 64 Form F, DIN 2501/316L	B 3 8
Flange DN 50 PN 64 Form 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

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

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

	7ML5747-
Flange DN 65 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 4 7
Flange DN 65 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 4 8
Flange DN 65 PN 40 Form F, DIN 2501/316L	B 5 0
Flange DN 65 PN 64 Form E, DIN 2501/316L	B 5 1
Flange DN 80 PN 40 Form C, DIN 2501/316L	B 5 2
Flange DN 80 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 5 3
Flange DN 80 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 5 4
Flange DN 80 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 5 5
Flange DN 80 PN 40 Form F, DIN 2501/316L	B 5 6
Flange DN 80 PN 40 Form N, DIN 2501/316L	B 5 7
Flange DN 100 PN 16 Form C, DIN 2501/316L	B 6 0
Flange DN 100 PN 16 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 6 1
Flange DN 100 PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 6 2
Flange DN 100 PN 16 Form C, DIN 2501/PFA ⁴⁾	B 6 3
Flange DN 100 PN 16 Form D, DIN 2501/316L	B 6 4
Flange DN 100 PN 16 Form F, DIN 2501/316L	B 6 5
Flange DN 100 PN 16 Form N, DIN 2501/316L	B 6 6
Flange DN 100 PN 40 Form C, DIN 2501/316L	B 6 7
Flange DN 100 PN 40 Form C, DIN 2501/ECTFE ⁴⁾	B 6 8
Flange DN 100 PN 40 Form C, DIN 2501/PFA ⁴⁾	B 7 0
Flange DN 100 PN 40 Form C, DIN 2501/Enamelled ³⁾	B 7 1
Flange DN 100 PN 40 Form F, DIN 2501/316L	B 7 2
Flange DN 100 PN 40 Form N, DIN 2501/316L	B 7 3
Flange DN 100 PN 40 V13, DIN 2501/316L	B 7 4
Flange DN 100 PN 64 Form E, DIN 2501/316L	B 7 5
Flange DN 100 PN 100 Form E, DIN 2501/316L	B 7 6
Flange DN 100 PN 100 Form L, DIN 2501/316L	B 7 7
Flange DN 125 PN 16 Form F, DIN 2501/316L	B 7 8
Flange DN 125 PN 40 Form C, DIN 2501/316L	B 8 0
Flange DN 125 PN 40 Form N, DIN 2512/316L	B 8 1
Flange DN 150 PN 16 Form C, DIN 2501/316L	B 8 2
Flange DN 150 PN 16 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 8 3
Flange DN 150 PN 16 Form C, DIN 2501/ECTFE ⁴⁾	B 8 4
Flange DN 150 PN 16 Form C, DIN 2501/PFA ⁴⁾	B 8 5
Flange DN 150 PN 16 Form D, DIN 2501/316L	B 8 6
Flange DN 150 PN 40 Form C, DIN 2501/316L	B 8 7
Flange DN 150 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) plated	B 8 8
Flange DN 150 PN 40 Form F, DIN 2501/316L	C 0 0
Flange DN 150 PN 40 Form N, DIN 2512/316L	C 0 1
Flange DN 200 PN 10 Form C, DIN 2501/ECTFE ⁴⁾	C 0 2
Flange DN 200 PN 16 Form C, DIN 2501/316L	C 0 3
Flange DN 25 PN 40 Form B1, EN 1092-1/316L	C 0 4
Flange DN 25 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) plated	C 0 5
Flange DN 25 PN 40 Form B1, EN/316L/PFA ⁴⁾	C 0 6
Flange DN 25 PN 40 Form B1, EN 1092-1/Enamelled ³⁾	C 0 7
Flange DN 25 PN 40 Form B2, EN 1092-1/316L	C 0 8
Flange DN 25 PN 40 Form F, EN 1092-1/316L	C 1 0
Flange DN 25 PN 63 Form B1, EN 1092-1/316L	C 1 1
Flange DN 25 PN 100 Form B2, EN 1092-1/316L	C 1 2
Flange DN 40 PN 40 Form B1, EN/316L	C 1 3
Flange DN 40 PN 40 Form B1, EN 1092-1/PFA ⁴⁾	C 1 4
Flange DN 40 PN 40 Form B2, EN/316L	C 1 5

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

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

7ML5747-

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

Flange 4" 300 lb RF, ASME B16.5/316L

D 3 4

Flange 4" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) plated

D 3 5

Flange 4" 300 lb RF, ASME B16.5/ECTFE⁴⁾

D 3 6

Flange 4" 300 lb RJF, ASME B16.5/316L

D 3 7

Flange 4" 300 lb LG, ASME B16.5/316L

D 3 8

Flange 4" 300 lb LT, ASME B16.5/316L

D 4 0

Flange 4" 600 lb RF, ASME B16.5/316L

D 4 1

Flange 4" 600 lb RJF, ASME B16.5/316L

D 4 2

Flange 5" 150 lb RF, ASME B16.5/316L

D 4 3

Flange 6" 150 lb RF, ASME B16.5/316L

D 4 4

Flange 6" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) plated

D 4 5

Flange 6" 150 lb RF, ASME B16.5/ECTFE⁴⁾

D 4 6

Flange 6" 150 lb RF, ASME B16.5/PFA⁴⁾

D 4 7

Flange 6" 150 lb RJF, ASME B16.5/316L

D 4 8

Flange 6" 300 lb RF, ASME B16.5/316L

D 5 0

Flange 8" 150 lb RF, ASME B16.5/316L

D 5 1

Flange 8" 150 lb RF, ASME B16.5/ECTFE⁴⁾

D 5 2

Flange 1" BS.10 Table E/316L

D 5 3

Flange 1" BS.10 Table E/PFA⁴⁾

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/ECTFE⁴⁾

D 5 7

Flange DN 40 10K, JIS/316L

D 5 8

Flange DN 50 10K, JIS/316L

D 6 0

Flange DN 80 10K, JIS/316L

D 6 1

Flange DN 100 10K, JIS/316L

D 6 2

Thread R1 PN64, EN10226-1/316L¹¹⁾

D 6 5

Flange 2" 900 lb RF, ASME B16.5/316L

D 7 0

Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid

D 7 1

Adapter/Process temperature

Without adapter/-50 ... +150 °C

1

With adapter/-50 ... +200 °C¹³⁾

2

With adapter/-50 ... +250 °C¹⁰⁾

3

With gas-tight leadthrough/-50 ... +150 °C

4

With gas-tight leadthrough/-50 ... +250 °C¹⁰⁾

5

Housing/Cable entry

Aluminum IP66/IP67/M20 x 1.5

A

Aluminum IP66/IP67/½" NPT

B

316L stainless steel (electropolished)

C

IP66/IP67/M20 x 1.5

316L stainless steel (electropolished)

D

IP66/IP67/½" NPT

Plastic single chamber IP66/IP67/M20 x 1.5

E

Plastic single chamber IP66/IP67/½" NPT

F

Stainless steel chamber (precision casting) IP66/IP67/M20 x 1.5

G

Stainless steel chamber (precision casting) IP66/IP67/½" NPT

H

Aluminum IP66/IP67/M20 x 1.5 Special HARTING plug (bent) according to Tier One (ZB7555)

V

Selection and Ordering data

Article No.

SITRANS LVL200, Rigid extension

7ML5747-

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

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

80 ... 500 mm

B 0

501 ... 1 000 mm

B 1

1 001 ... 1 500 mm

B 2

1 501 ... 2 000 mm

B 3

2 001 ... 2 500 mm

B 4

2 501 ... 3 000 mm

B 5

Rigid Extension PFA coated

80 ... 500 mm

C 0

501 ... 1 000 mm

C 1

1 001 ... 1 500 mm

C 2

1 501 ... 2 000 mm

C 3

2 001 ... 2 500 mm

C 4

2 501 ... 3 000 mm

C 5

3 001 ... 3 500 mm

C 6

3 501 ... 4 000 mm

C 7

Rigid Extension 316L Ra ≤ 0.8 μm

80 ... 500 mm

D 0

501 ... 1 000 mm

D 1

1 001 ... 1 500 mm

D 2

1 501 ... 2 000 mm

D 3

2 001 ... 2 500 mm

D 4

2 501 ... 3 000 mm

D 5

3 001 ... 3 500 mm

D 6

3 501 ... 4 000 mm

D 7

Rigid Extension 316L Ra ≤ 0.3 μm

80 ... 500 mm

E 0

501 ... 1 000 mm

E 1

1 001 ... 1 500 mm

E 2

1 501 ... 2 000 mm

E 3

2 001 ... 2 500 mm

E 4

2 501 ... 3 000 mm

E 5

3 001 ... 3 500 mm

E 6

3 501 ... 4 000 mm

E 7

Rigid Extension Enamelled version

80 ... 250 mm

F 0

251 ... 500 mm

F 1

501 ... 750 mm

F 2

751 ... 1 000 mm


F 3

1 001 ... 1 250 mm

F 4

1 251 ... 1 500 mm

F 5

Selection and Ordering data	Article No.	Selection and Ordering data	Order code
SITRANS LVL200, Rigid extension Compact vibrating level switch for material detection in liquid applications such as overflow, high, low, and demand applications, as well as pump protection. For use in SIL-2 and hazardous applications.	7ML5747- 	Further designs Please add "-Z" to Article No. and specify Order code(s).	
Rigid Extension Alloy C22 (2.4602) 80 ... 500 mm 501 ... 1 000 mm 1 001 ... 1 500 mm 1 501 ... 2 000 mm 2 001 ... 2 500 mm 2 501 ... 3 000 mm 3 001 ... 3 500 mm 3 501 ... 4 000 mm	G 0 G 1 G 2 G 3 G 4 G 5 G 6 G 7	Switching status indication with colors red-green ¹²⁾ Cleaning including Certificate (oil, grease, and silicone free) Enter the total insertion length in plain text description, max. 4 000 mm (157.48 inch) Identification label (measurement loop) stainless steel: max. 40 characters, add in plain text. To add more than one line, use a coma "," for line break. Identification Label (measurement loop) foil: max. 40 characters add in plain text. To add more than one line, use a coma "," for line break.	A21 W01 Y01 Y17 Y18
Rigid Extension Alloy 400 (2.4360) 80 ... 500 mm 501 ... 1 000 mm 1 001 ... 1 500 mm 1 501 ... 2 000 mm 2 001 ... 2 500 mm 2 501 ... 3 000 mm	H 0 H 1 H 2 H 3 H 4 H 5	NACE0175 to 3.1 Material Certificate for material (EN10204 NACE MR 0175) ⁸⁾ Note: not available with Process connection and Rigid extension options with PFA, ECTFE, and Enamel coatings. NACE not available with Hygienic process connections. Material Inspection certificate 3.1 of EN 10204 ⁸⁾ 2.2-Factory certificate for material (EN 10204) ⁸⁾ Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 ⁸⁾ Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN 10204) ⁸⁾ X-ray test + 3.1 certificate/instrument ⁸⁾ Positive material identification test + 3.1 certificate/instrument ⁸⁾ Roughness test + 3.1 certificate/instrument ⁸⁾ 3.1-Inspection Certificate for instrument with test data (EN 10204) Quality and test plan Pressure test + 3.1 certificate/instrument ⁸⁾ Helium leak test + 3.1 certificate/instrument ⁸⁾ Ferrite measuring accuracy to DIN 32514-1 + 3.1 certificate/instrument ⁸⁾ Pressure test according to Norsok + 3.1 certificate/instrument ⁸⁾	D07 C05 C15 C20 C13 C14 C16 C18 C25 C26 C31 C32 C60 C61
		Operating Instructions All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data

Article No.

Spare Parts and Accessories

Electronics module SITRANS LVL200 Relay
 Electronics module SITRANS LVL200 Contactless
 NAMUR spare electronics module
 SITRANS SCSC single channel signal conditioner and remote test
 SITRANS TCSC two channel signal conditioner and remote test
 Lock fitting, unpressurized, G1" A/316L
 Lock fitting, unpressurized, 1" NPT/316L
 Lock fitting, unpressurized, G1 ... 1/2" A/316L
 Lock fitting, unpressurized, 1 ... 1/2" NPT/316L
 Lock fitting, -1 ... 16 bar, G1" A/316L
 Lock fitting, -1 ... 16 bar, 1" NPT/316L
 Lock fitting, -1 ... 16 bar, G1 1/2" A/316L
 Lock fitting, -1 ... 16 bar, 1 1/2" NPT/316L
 Lock fitting, -1 ... 64 bar, G1" A/316L
 Lock fitting, -1 ... 64 bar, 1" NPT/316L
 Lock fitting, -1 ... 64 bar, G1 1/2" A/316L
 Lock fitting, -1 ... 64 bar, 1 1/2" NPT/316L

7ML1830-1NC
7ML1930-6AA
A5E35817107
7ML5760
7ML5761
7ML1930-1DQ
7ML1930-1DR
7ML1930-1DS
7ML1930-1DT
7ML1930-1DU
7ML1930-1DV
7ML1930-1DW
7ML1930-1DX
7ML1930-1EA
7ML1930-1EB
7ML1930-1EC
7ML1930-1ED

- 1) Available only with Adapter/Process temperature options 1, 3, 4, and 5.
- 2) Available only with Housing/Cable entry option B.
- 3) Available only with Adapter/Process temperature options 1, 2, and 4.
- 4) Not available with Adapter/Process temperature options 2, 3, and 5.
- 5) Not available with Adapter/Process temperature options 2, 4, and 5.
- 6) Available only with Electronics options 4 and 6.
- 7) Available only with Rigid Extension options less than 3 001 mm.
- 8) Listed Certificates are not available with all configurations please contact factory for more information.
- 9) Not available with Housing/Protection/Cable option V.
- 10) Not available with PFA, ECTFE, and Enamelled coating options.
- 11) Available only with some 316L extensions.
- 12) Available only with relay electronic options and non-hazardous Approval options.
- 13) Available only with Enamelled Process connection/Material options.
- 14) Not available with Approval options C, E, G, H, L, N, V, and W.
- 15) Not available with Approval options C, E, G, H, N, and V.
- 16) Only available with Aluminum Housing/Protection/Cable options and certain glands.
- 17) Not available with Stainless Steel Electropolish Housing/Protection/Cable options and certain glands.
- 18) Not available with Plastic or Stainless Steel Electropolish Housing/Protection/Cable options and certain glands.
- 19) Not available with Housing/Protection/Cable options D and V.
- 20) Not available with Housing/Protection/Cable options A, E, G, and V.
- 21) Not available with some Housing/Protection/Cable gland options.
- 22) Not available with Housing/Protection/Cable options A, C, and V.
- 23) Not available with Plastic Housing/Protection/Cable options.
- 24) Available only with Electronic option 4.

Selection and Ordering data

Article No.

SITRANS LVL200, High temperature

Rigid extended vibrating level switch for use in aggressive liquids and hazardous applications such as overflow, high, and low demand applications, as well as pump protection. For use in SIL-2 applications.

➔ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Version/Material

Compact version/Inconel 718 (2.4668)¹⁾²⁾
 With tube extension/316L and Inconel 718 (2.4668)¹⁾³⁾
 With tube extension/Alloy C22 (2.4602) and Inconel 718 (2.4668)⁴⁾

Approvals

Without approvals

Process connection

Thread G1 PN 100, DIN 3852-A/316L
 Thread G1 PN 160, DIN 3852-A/
 Inconel 718 (2.4668)
 Thread 1" NPT PN 100, ASME B1.20.1/316L
 Thread 1" NPT PN 160, ASME B1.20.1/
 Inconel 718 (2.4668)
 Flange DN 50 PN 40 Form C, DIN 2501/316/316
 Flange DN 50 PN 40 Form C, DIN 2501/316/316L,
 with Alloy C22 (2.4602) coating
 Flange DN 50 PN 40 Form N, DIN 2501/316/316L
 Flange DN 50 PN 40 Form V13, DIN 2501/316/316L
 Flange DN 50 PN 40 Form V13, DIN 2501/Alloy
 C22 (2.4602) solid
 Flange DN 50 PN 40 Form V13, DIN 2501/316/
 316L, with Alloy C22 (2.4602)
 coating
 Flange DN 50 PN 64 Form E, DIN 2501/316/316L
 Flange DN 50 PN 100 Form C, DIN 2501/316/316L
 Flange DN 50 PN 100 Form F, DIN 2501/316/316L
 Flange DN 50 PN 100 Form V13,
 DIN 2501/ 316/316L
 Flange DN 50 PN 160 Form C, DIN 2501/316/316L
 Flange DN 50 PN 160 Form F, DIN 2501/316/316L
 Flange DN 65 PN 16 Form C, DIN 2501/316/316L
 Flange DN 65 PN 40 Form C, DIN 2501/316/316L
 Flange DN 65 PN 100 Form C, DIN 2501/316/316L
 Flange DN 80 PN 40 Form C, DIN 2501/316/316L
 Flange DN 80 PN 100 Form C, DIN 2501/316/316L
 Flange DN 80 PN 160 Form F, DIN 2501/316/316L
 Flange DN 80 PN 160 Form L, DIN 2501/316/316L
 Flange DN 80 PN 250 Form L, DIN 2501/316/316L
 Flange DN 80 PN 250 Form L, DIN 2501/
 Alloy C22 (2.4602) solid
 Flange DN 100 PN 16 Form C, DIN 2501/316/316L
 Flange DN 100 PN 40 Form C, DIN 2501/316/316L
 Flange DN 100 PN 100 Form E, DIN 2501/316/316L
 Flange DN 100 PN 160 Form L, DIN 2501/316/316L
 Flange DN 125 PN 16 Form C, DIN 2501/316/316L
 Flange DN 125 PN 40 Form C, DIN 2501/316/316L
 Flange DN 150 PN 16 Form C, DIN 2501/316/316L
 Flange DN 150 PN 16 Form C, DIN 2501/316/316L,
 with Alloy C22 (2.4602) coating
 Flange DN 150 PN 40 Form C, DIN 2501/316/316L
 Flange DN 150 PN 160 Form L, DIN 2501/316/316L
 Flange DN 200 PN 16 Form C, DIN 2501/316/316L
 Flange DN 200 PN 64 Form C, DIN 2501/316/316L

7ML5748-

1		
2		
3		
	A	
	A 0	
	A 1	
	A 2	
	A 3	
	A 4	
	A 5	
	A 6	
	A 7	
	A 8	
	B 0	
	B 1	
	B 2	
	B 3	
	B 4	
	B 5	
	B 6	
	B 7	
	B 8	
	C 0	
	C 1	
	C 2	
	C 3	
	C 4	
	C 5	
	C 6	
	C 7	
	C 8	
	D 0	
	D 1	
	D 2	
	D 3	
	D 4	
	D 5	
	D 6	
	D 7	
	D 8	
	E 0	

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
SITRANS LVL200, High temperature Rigid extended vibrating level switch for use in aggressive liquids and hazardous applications such as overflow, high, and low demand applications, as well as pump protection. For use in SIL-2 applications.	7ML5748-	SITRANS LVL200, High temperature Rigid extended vibrating level switch for use in aggressive liquids and hazardous applications such as overflow, high, and low demand applications, as well as pump protection. For use in SIL-2 applications.	7ML5748-
Flange DN 250 PN 16 Form C, DIN 2501/316/316L	E 1	Flange 1½" 300 lb RJF, ASME B16.5/316/316L	L 1
Flange DN 250 PN 64 Form C, DIN 2501/316/316L	E 2	Flange 1½" 1 500 lb RJF, ASME B16.5/316/316L	L 2
Flange DN 50 PN 40 Form B1, EN 1092-1/1.4435	E 3	Flange 2" 150 lb RF, ASME B16.5/316/316L	L 3
Flange DN 50 PN 40 Form B1, EN 1092-1/316/316L	E 4	Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	L 4
Flange DN 50 PN 40 Form B1, EN 1092-1/316/316L, with Alloy C22 (2.4602) coating	E 5	Flange 2" 300 lb RF, ASME B16.5/316/316L	L 5
Flange DN 50 PN 40 Form B2, EN 1092-1/316/316L	E 6	Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	L 6
Flange DN 50 PN 40 Form C, EN 1092-1/316/316L	E 7	Flange 2" 300 lb RF, ASME B16.5/316/316L, with Alloy C22 (2.4602) coating	L 7
Flange DN 50 PN 40 Form D, EN 1092-1/316/316L	E 8	Flange 2" 300 lb ST (small tongue), ASME B16.5/316/316L	L 8
Flange DN 50 PN 40 Form E, EN 1092-1/316/316L	F 0	Flange 2" 300 lb RJF, ASME B16.5/316/316L	M 1
Flange DN 50 PN 63 Form B2, EN 1092-1/316/316L	F 1	Flange 2" 300 lb LM (large male), ASME B16.5/316/316L	M 2
Flange DN 50 PN 63 Form B2, EN 1092-1/316/316L, with Alloy C22 (2.4602) coating	F 2	Flange 2" 300 lb SG, ASME B16.5/316/316L	M 3
Flange DN 50 PN 63 Form C, EN 1092-1/316/316L	F 3	Flange 2" 300 lb LG, ASME B16.5/316/316L	M 4
Flange DN 50 PN 63 Form D, EN 1092-1/316/316L	F 4	Flange 2" 600 lb RF, ASME B16.5/316/316L	M 5
Flange DN 50 PN 100 Form B1, EN 1092-01/316/316L	F 5	Flange 2" 600 lb RF, ASME B16.5/316/316L, with Alloy C22 (2.4602) coating	M 6
Flange DN 50 PN 100 Form C, EN 1092-1/316/316L	F 6	Flange 2" 600 lb RJF, ASME B16.5/316/316L	M 7
Flange DN 50 PN 160 Form B1, EN 1092-1/316/316L	F 7	Flange 2" 900 lb RF, ASME B16.5/316/316L	M 8
Flange DN 50 PN 160 Form B2, EN 1092-1/316/316L	F 8	Flange 2" 900 lb RJF, ASME B16.5/316/316L	N 1
Flange DN 50 PN 250 Form B1, EN 1092-1/316/316L	G 0	Flange 2" 1 500 lb RF, ASME B16.5/316/16L	N 2
Flange DN 50 PN 250 Form B2, EN 1092-1/316/316L	G 1	Flange 2" 1 500 lb RJF, ASME B16.5/316/316L	N 3
Flange DN 65 PN 40 Form B1, EN 1092-1/316/316L	G 2	Flange 2" 1 500 lb LT, ASME B16.5/Alloy C22 (2.4602) solid	N 4
Flange DN 65 PN 63 Form C, EN 1092-1/316/316L	G 3	Flange 2" 1 500 lb LM, ASME B16.5/316/316L	N 5
Flange DN 80 PN 40 Form B1, EN 1092-1/316/316L	G 4	Flange 2" 2 500 lb RJF, ASME B16.5/316/316L	N 6
Flange DN 80 PN 40 Form B2, EN 1092-1/316/316L	G 5	Flange 2½" 150 lb RF, ASME B16.5/316/316L	N 7
Flange DN 80 PN 40 Form C, EN 1092-1/316/316L	G 6	Flange 2½" 300 lb RF, ASME B16.5/316/316L	N 8
Flange DN 80 PN 40 Form D, EN 1092-1/316/316L	G 7	Flange 2½" 600 lb RF, ASME B16.5/316/316L	P 1
Flange DN 80 PN 63 Form B2, EN 1092-1/316/316L	G 8	Flange 2½" 900 lb RF, ASME B16.5/316/316L	P 2
Flange DN 80 PN 160 Form B2, EN 1092-1/316/316L	H 0	Flange 2½" 2 500 lb RJF, ASME B16.5/316/316L	P 3
Flange DN 80 PN 250 Form B1, EN 1092-1/316/316L	H 1	Flange 3" 150 lb RF, ASME B16.5/316/316L	P 4
Flange DN 100 PN 16 Form D, EN 1092-1/316/316L	H 2	Flange 3" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	P 5
Flange DN 100 PN 40 Form B1, EN 1092-1/316/316L	H 3	Flange 3" 300 lb RF, ASME B16.5/316/316L	P 6
Flange DN 100 PN 40 Form B2, EN 1092-1/316/316L	H 4	Flange 3" 300 lb RJF, ASME B16.5/316/316L	P 7
Flange DN 100 PN 40 Form C, EN 1092-1/316/316L	H 5	Flange 3" 300 lb LT, ASME B16.5/316/316L	P 8
Flange DN 100 PN 40 Form D, EN 1092-1/316/316L	H 6	Flange 3" 600 lb RF, ASME B16.5/316/316L	R 1
Flange DN 100 PN 160 Form B2, EN 1092-1/316/316L	H 7	Flange 3" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	R 2
Flange DN 125 PN 63 Form C, EN 1092-1/316/316L	H 8	Flange 3" 600 lb RF, ASME B16.5/316/316L, with Alloy C22 (2.4602) coating	R 3
Flange DN 125 PN 160 Form B2, EN 1092-1/316/316L	K 0	Flange 3" 600 lb RJF, ASME B16.5/316/316L	R 4
Flange DN 150 PN 40 Form B1, EN 1092-1/316/316L	K 1	Flange 3" 900 lb RF, ASME B16.5/316/316L	R 5
Flange DN 150 PN 40 Form C, EN 1092-1/316/316L	K 2	Flange 3" 900 lb RJF, ASME B16.5/316/316L	R 6
Flange DN 150 PN 40 Form D, EN 1092-1/316/316L	K 3	Flange 3" 1 500 lb RF, ASME B16.5/316/316L	R 7
Flange DN 40 PN 100, GOST 12815-80.7/316/316L	K 4	Flange 3" 1500lb RJF, ASME B16.5 / 316/316L	R 8
Flange DN 50 PN 100, GOST 12815-80.7/316/316L	K 5	Flange 3" 2 500 lb RF, ASME B16.5/316/316L	S 1
Flange DN 80 PN 100, GOST 12815-80.7/316/316L	K 6	Flange 3" 2 500 lb RJF, ASME B16.5/316/316L	S 2
Flange DN 100 PN 100, GOST 12815-80.7/316/316L	K 7	Flange 4" 150 lb RF, ASME B16.5/316/316L	S 3
Flange 1½" 150 lb RJF, ASME B16.5/316/316L	K 8	Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	S 4
		Flange 4" 150 lb RJF, ASME B16.5/316/316L	S 5
		Flange 4" 300 lb RF, ASME B16.5/316/316L	S 6
		Flange 4" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	S 7
		Flange 4" 300 lb LT, ASME B16.5/316/316L	S 8
		Flange 4" 600 lb RF, ASME B16.5/316/316L	T 1

Level Measurement

Point level measurement

Vibrating switches

SITRANS LVL200

Selection and Ordering data	Article No.
SITRANS LVL200, High temperature Rigid extended vibrating level switch for use in aggressive liquids and hazardous applications such as overflow, high, and low demand applications, as well as pump protection. For use in SIL-2 applications.	7ML5748-
Flange 4" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	T 2
Flange 4" 600 lb RJF, ASME B16.5/316/316L	T 3
Flange 4" 900 lb RF, ASME B16.5/316/316L	T 4
Flange 4" 900 lb RJF, ASME B16.5/316/316L	T 5
Flange 4" 900 lb LT, ASME B16.5/316/316L	T 6
Flange 4" 1 500 lb RF, ASME B16.5/316/316L	T 7
Flange 4" 1 500 lb RJF, ASME B16.5/316/316L	T 8
Flange 4" 1 500 lb LT, ASME B16.5/316/316L	U 1
Flange 5" 150 lb RF, ASME B16.5/316/316L	U 2
Flange 5" 300 lb RF, ASME B16.5/316/316L	U 3
Flange 5" 600 lb RJF, ASME B16.5/316/316L	U 4
Flange 6" 150 lb RF, ASME B16.5/316/316L	U 5
Flange 6" 300 lb RF, ASME B16.5/316/316L	U 6
Flange 6" 300 lb LT, ASME B16.5/316/316L	U 7
Flange DN 50 30K RF, JIS/316/316L	U 8
Flange DN 50 40K RF, JIS/316/316L	V 1
Flange DN 65 40 K RF, JIS/316/316L	V 2
Mobrey flange PN 16 Form A/316/316L	V 3
Mobrey flange PN 16 Form E/316/316L	V 4
Gas-tight seal/Process temperature	
With gas-tight seal/-196 ... +450 °C (-321 ... +842 °F)	1
Without/-196 ... +450 °C (-321 ... +842 °F)	2
Electronics	
Relay (2 x SPDT) 20 ... 72 V DC/20 ... 253 V AC (5A)	1
Transistor (NPN/PNP) 9.6 ... 55 V DC	2
Two-wire (8/16 mA) 9.6 ... 35 V DC	3
Relay (2 x SPDT) 20 ... 72 V DC/20 ... 253 V AC (5A) with SIL qualification	4
Transistor (NPN/PNP) 9.6 ... 55 V DC with SIL qualification	5
Two-wire (8/16 mA) 9.6 ... 35 V DC with SIL qualification	6
Housing/Cable entry	
Plastic single chamber/IP66/IP67/M20 x 1.5 gland PA black (ø5 ... 9 mm)	A
Plastic single chamber/IP66/IP67/½" NPT gland PA black (ø5 ... 9 mm)	B
Aluminum IP66/IP67/M20 x 1.5 gland PA black (ø5 ... 9 mm)	C
Aluminum IP66/IP67/½" NPT gland PA black (ø5 ... 9 mm)	D
Stainless steel single chamber (precision casting)/IP66/IP67/M20 x 1.5 gland PA black (ø5 ... 9 mm)	E
Stainless steel single chamber (precision casting)/IP66/IP67/½" NPT gland PA black (ø5 ... 9 mm)	F
Stainless steel single chamber (electropolished)/IP66/IP67/M20 x 1.5 gland PA black (ø5 ... 9 mm)	G
Stainless steel single chamber (electropolished)/IP66/IP67/½" NPT gland PA black (ø5 ... 9 mm)	H
Rigid Extension 316L	
200 ... 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

Selection and Ordering data	Article No.
SITRANS LVL200, High temperature Rigid extended vibrating level switch for use in aggressive liquids and hazardous applications such as overflow, high, and low demand applications, as well as pump protection. For use in SIL-2 applications.	7ML5748-
Rigid Extension Alloy C22	
200 ... 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
75 mm compact version	C 1
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.	Y01
Identification label (measurement loop) stainless steel.	Y17
Identification Label (measurement loop) foil	Y18
NACE0175 to 3.1 Material Certificate for material (EN 10204 NACE MR 0175) Note: not available with some Process connection options.	D07
Material Inspection 3.1-Inspection certificate for material (EN 10204)	C05
Acceptance test Certificate 2.2 for material (EN 10204)	C15
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN 10204)	C13
3.1-Inspection certificate for instrument with test data (EN 10204)	C25
Quality and test plan	C26
Helium leak test + 3.1 certificate/instrument	C32
Spare Parts and Accessories	Article No.
SITRANS SCSC single channel signal conditioner and remote test	7ML5760
SITRANS TCSC two channel signal conditioner and remote test	7ML5761
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	

- 1) Not available with Process Connection options A0 and A2.
- 2) Available only with Rigid extension option C1.
- 3) Available only with 316L Process Connection and Rigid extension options.
- 4) Available only with Alloy C22 Rigid extension options.

Level Measurement

Point level measurement

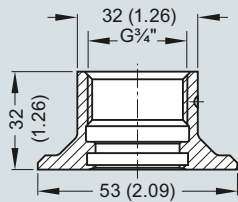
Vibrating switches

SITRANS LVL200

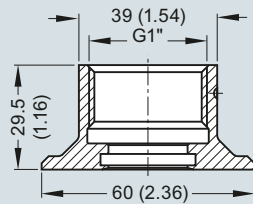
Options

LVL200 threaded welded socket

G $\frac{3}{4}$ " A/316L

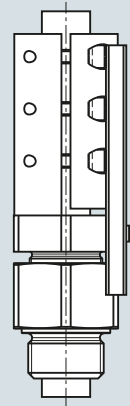


G1" A/316L

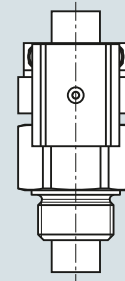


Lock fitting

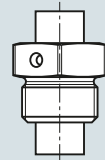
LVL200 extended
64 bar



LVL200 extended
16 bar

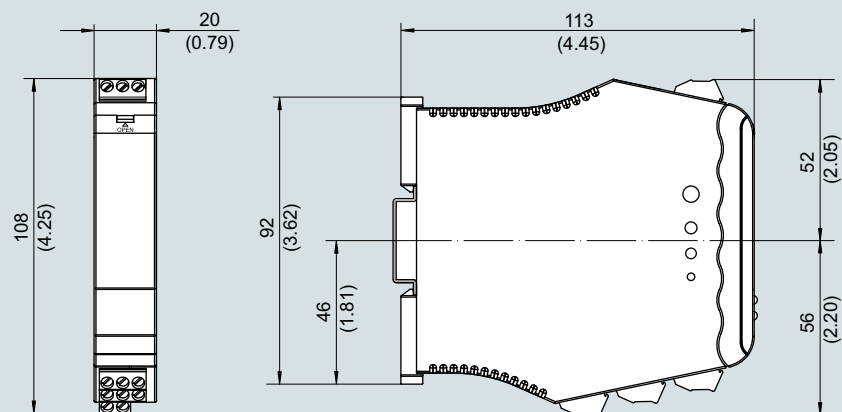


LVL200 extended
unpressurized

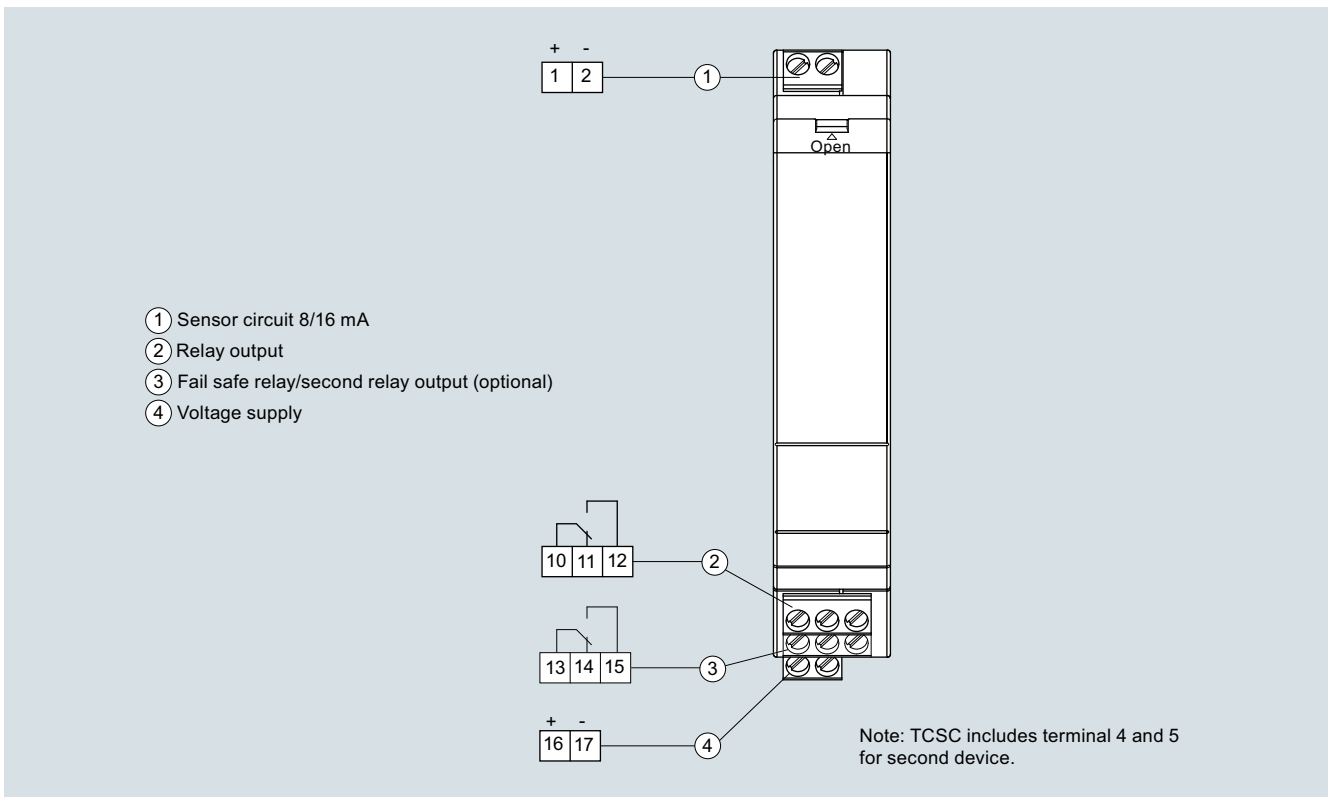


SITRANS LVL200 welded socket and lock fitting, dimensions in mm (inch)

SITRANS SCSC and TCSC LVL test conditioner



SITRANS SCSC and SITRANS TCSC LVL Test Conditioners, dimensions in mm (inch)



SITRANS SCSC and SITRANS TCSC LVL Test Conditioner connections

Level Measurement

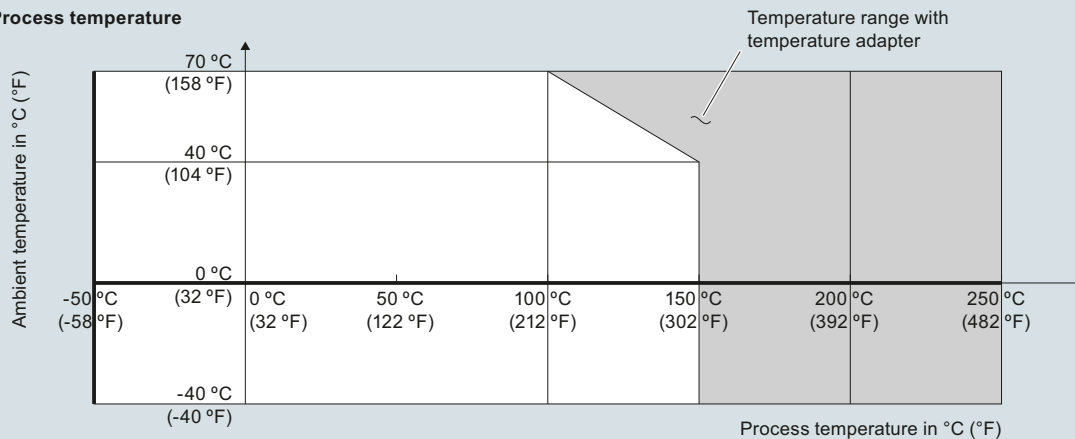
Point level measurement

Vibrating switches

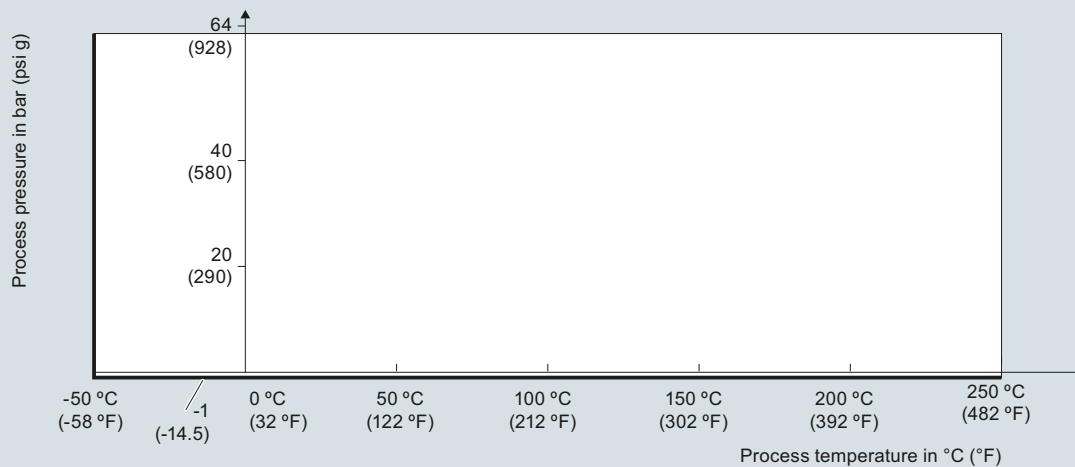
SITRANS LVL200

Characteristic curves

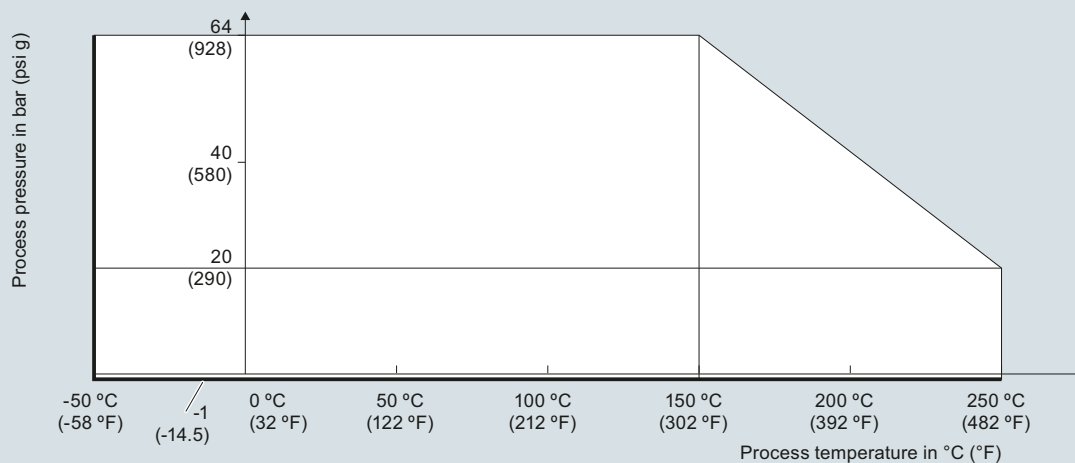
Ambient/Process temperature



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

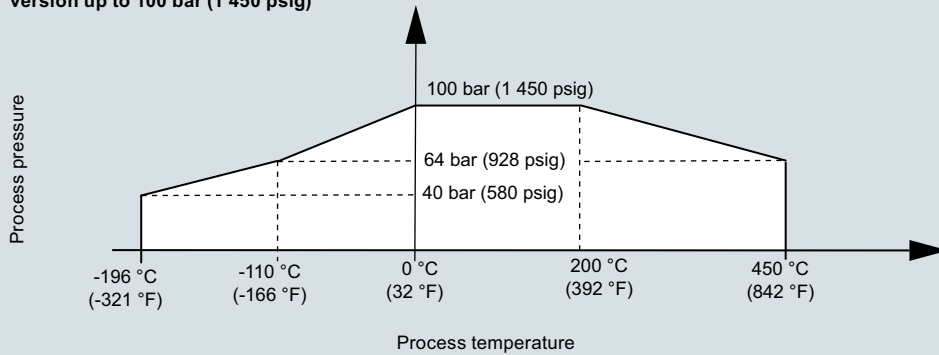


Process pressure with switch position 0.5 g/cm³ (mode switch)



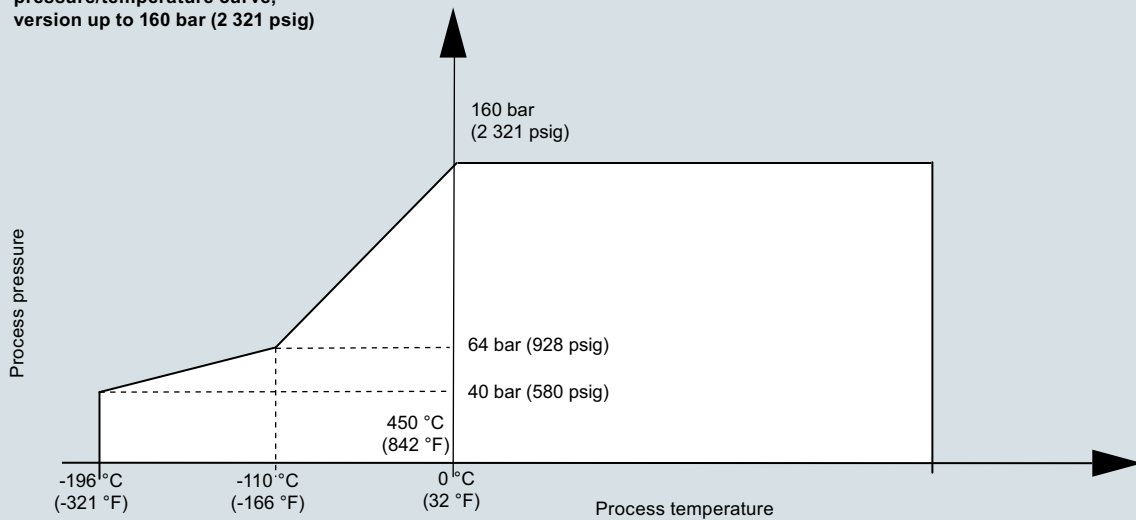
SITRANS LVL200 process pressure/process temperature/ambient temperature derating curves

SITRANS LVL high temperature process temperature/process pressure, version up to 100 bar (1 450 psig)



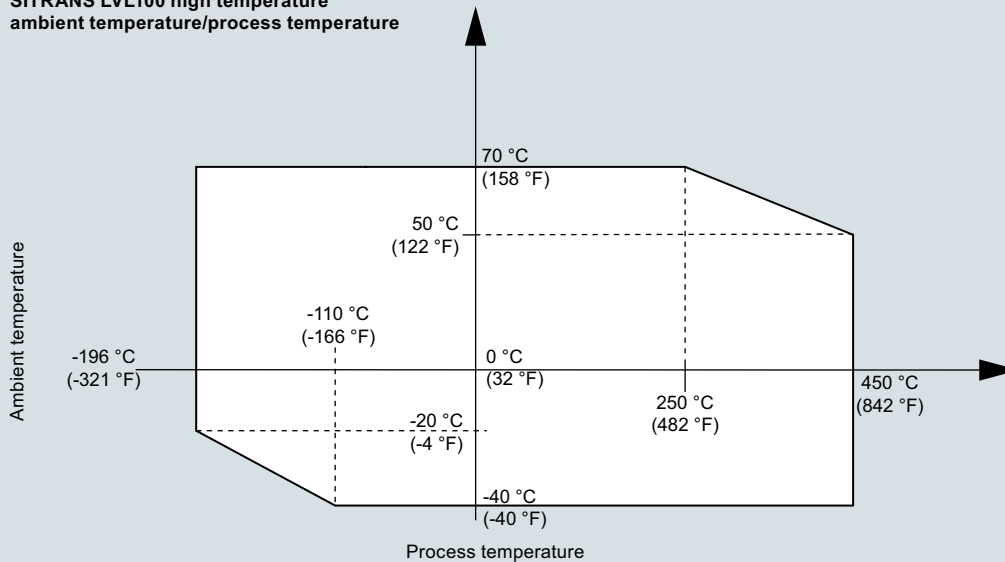
SITRANS LVL200 high temperature, process temperature/process pressure version up to 100 bar (1 450 psig)

SITRANS LVL200 high temperature pressure/temperature curve, version up to 160 bar (2 321 psig)



SITRANS LVL200 high temperature, pressure/temperature, version up to 160 bar (2 321 psig)

SITRANS LVL100 high temperature ambient temperature/process temperature



SITRANS LVL200 high temperature ambient temperature/process temperature, version up to 100 bar (1 450 psig)

Level Measurement

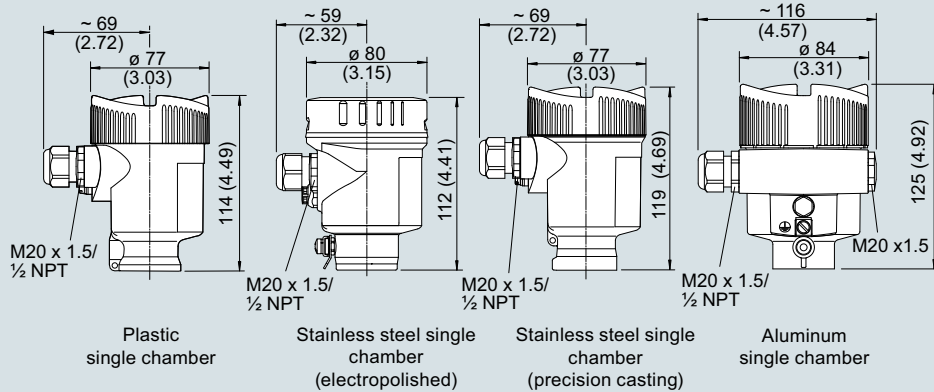
Point level measurement

Vibrating switches

SITRANS LVL200

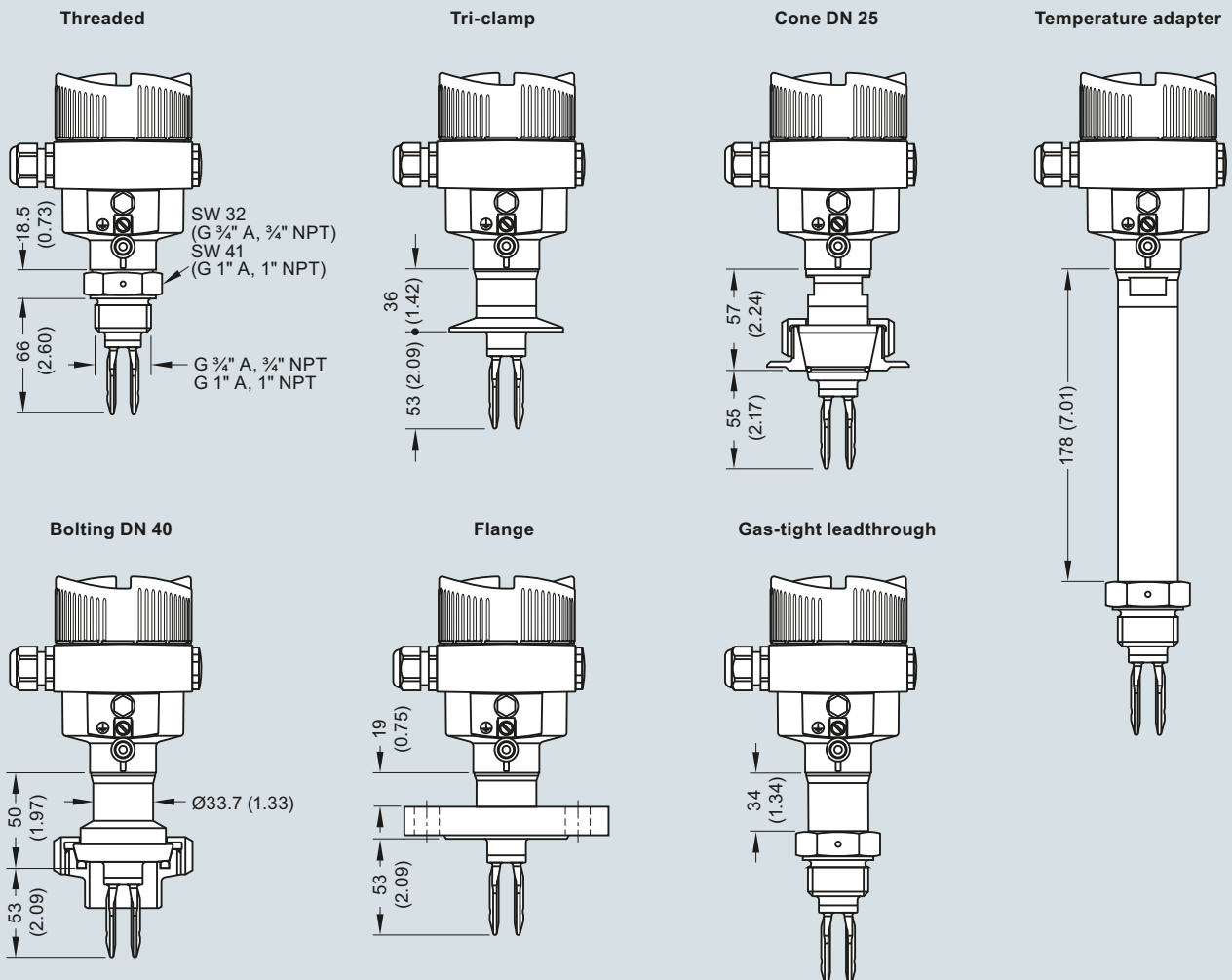
Dimensional drawings

SITRANS LVL200, housing



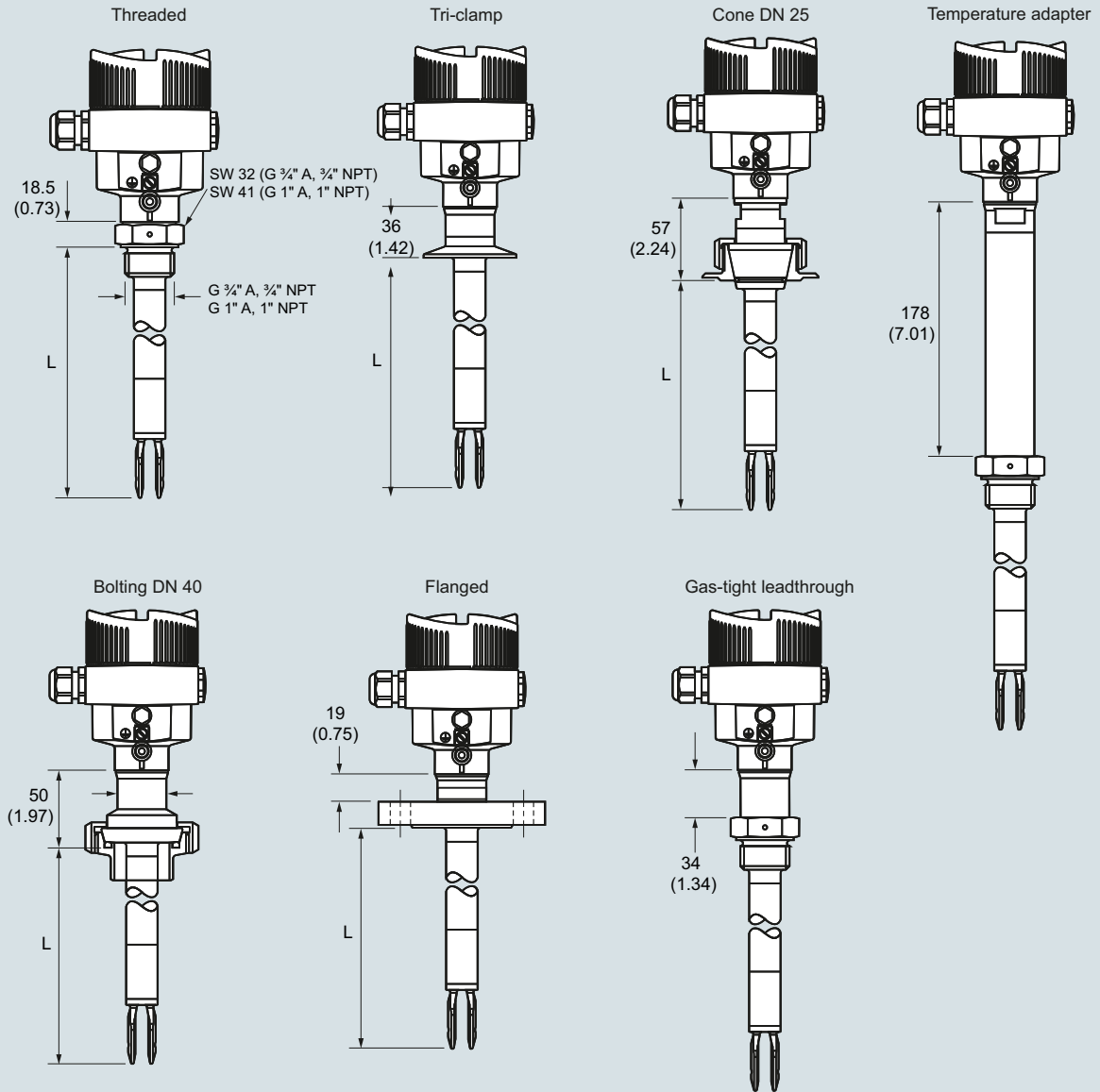
SITRANS LVL200 housing, dimensions in mm (inch)

SITRANS LVL200 standard



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

SITRANS LVL200 extended



Sensor length (L)

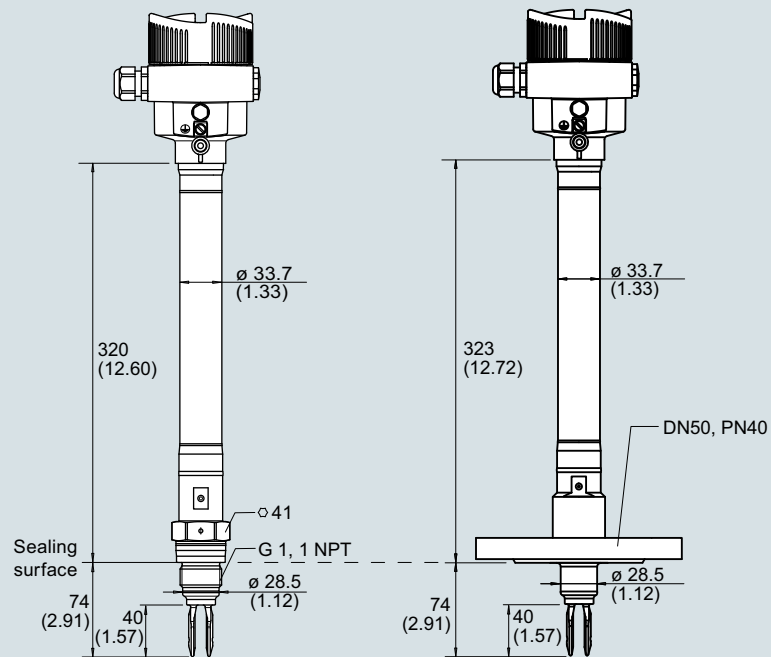
316L, Alloy C22 (2.4602)	80 ... 6 000 mm (3.15 ... 236.2 inch)
Enamelled	80 ... 1 500 mm (3.15 ... 59.06 inch)
316L, ECTFE coated	80 ... 3 000 mm (3.15 ... 118.1 inch)
316L, PFA coated	80 ... 4 000 mm (3.15 ... 157.5 inch)

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

Level Measurement

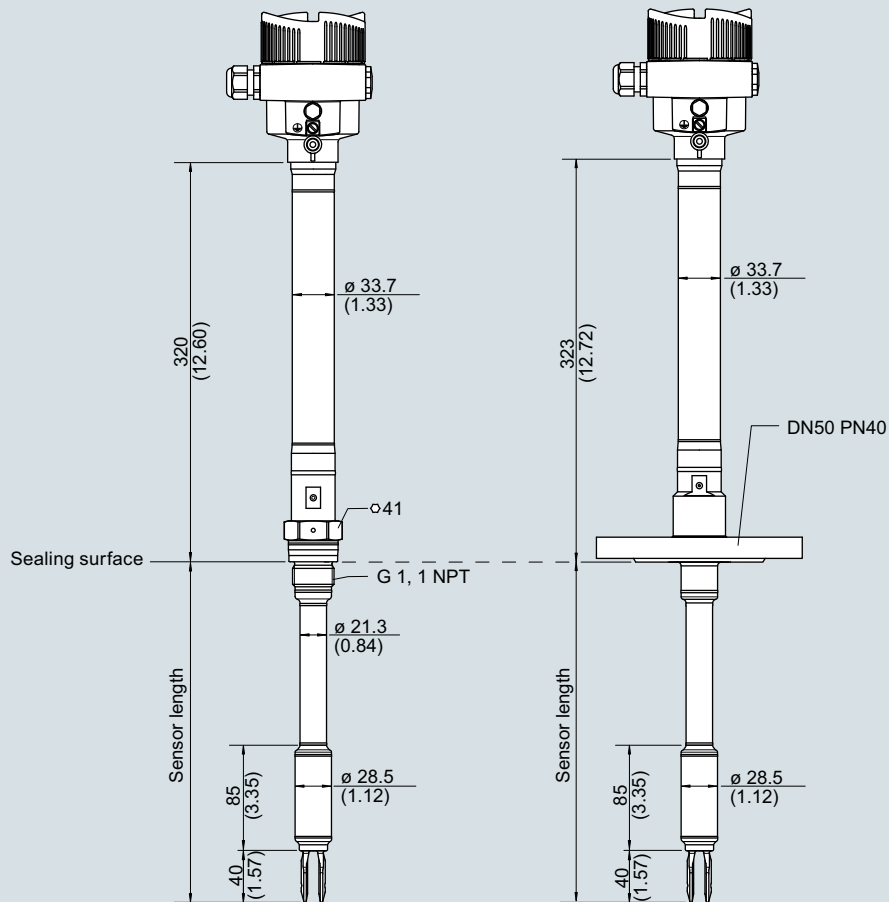
Point level measurement

Vibrating switches

SITRANS LVL200**SITRANS LVL200 high temperature, compact version**

SITRANS LVL200 high temperature (compact version), dimensions in mm (inch)

SITRANS LVL200 high temperature, tube version



SITRANS LVL200 high temperature (tube version), dimensions in mm (inch)

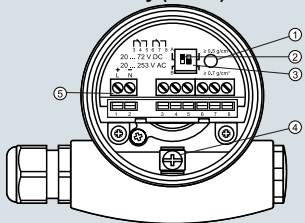
Level Measurement

Point level measurement
Vibrating switches

SITRANS LVL200

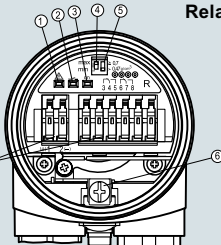
Circuit diagrams

SITRANS LVL200S, LVL200E
Relay (DPDT)

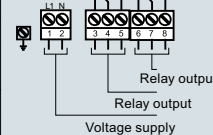


- | | |
|---|---|
| ① | Control lamp |
| ② | DIL switch for characteristics reversal |
| ③ | DIL switch for sensitivity adjustment |
| ④ | Ground terminal |
| ⑤ | Connection terminals |

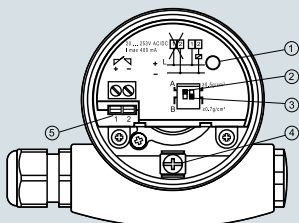
SITRANS LVL200H
Relay (DPDT)



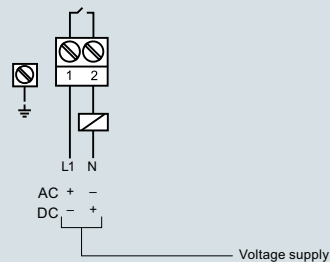
- | | |
|---|---|
| ① | Control lamp - fault indication (red) |
| ② | Control lamp - Switching status (yellow) |
| ③ | Control lamp - Operating status (green) |
| ④ | Mode switch for selecting the switching behaviour (min./max.) |
| ⑤ | DIL switch for sensitivity adjustment |
| ⑥ | Ground terminal |
| ⑦ | Connection terminals |



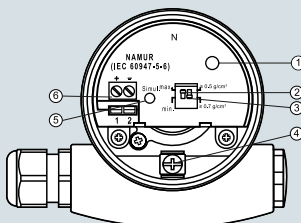
Contactless



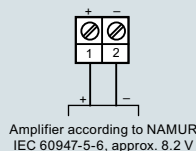
- | | |
|---|---|
| ① | Control lamp |
| ② | DIL switch for mode adjustment |
| ③ | DIL switch for switching point adaptation |
| ④ | Ground terminal |
| ⑤ | Connection terminals |



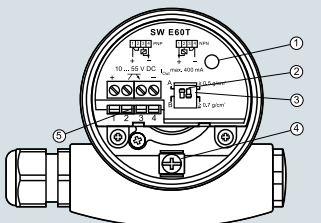
NAMUR



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

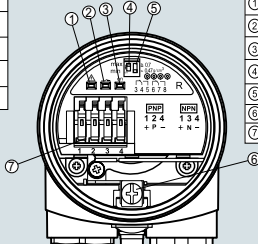


SITRANS LVL200S, LVL200E
Transistor (NPN/PNP)

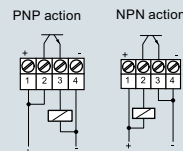


- | | |
|---|--------------------------------|
| ① | Control lamp |
| ② | DIL switch for mode adjustment |
| ③ | DIL switch for switching point |
| ④ | Ground terminal |
| ⑤ | Connection terminals |

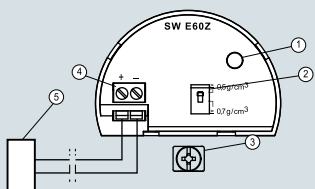
SITRANS LVL200H,
Transistor (NPN/PNP)



- | | |
|---|---|
| ① | Control lamp - fault indication (red) |
| ② | Control lamp - Switching status (yellow) |
| ③ | Control lamp - Operating status (green) |
| ④ | Mode switch for selecting the switching behaviour (min./max.) |
| ⑤ | DIL switch for sensitivity adjustment |
| ⑥ | Ground terminal |
| ⑦ | Connection terminals |

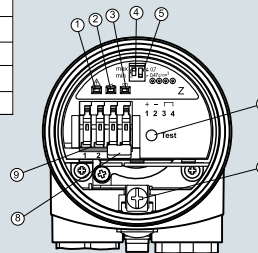


SITRANS LVL200S, LVL200E
8/16 mA

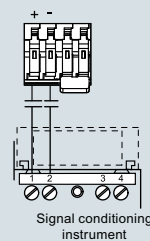


- | | |
|---|---------------------------------------|
| ① | Control lamp |
| ② | DIL switch for sensitivity adjustment |
| ③ | Ground terminal |
| ④ | Connection terminals |
| ⑤ | Processing system or PLC |

SITRANS LVL200H 8/16 mA



- | | |
|---|--|
| ① | Control lamp - fault indication (red) |
| ② | Control lamp - switching status (yellow) |
| ③ | Control lamp - operating status (green) |
| ④ | Mode switch for selecting the switching behavior (min./max.) |
| ⑤ | DIL switch for sensitivity behavior (min./max.) |
| ⑥ | Test key |
| ⑦ | Ground terminal |
| ⑧ | Connector block |
| ⑨ | Connection terminals |



SITRANS LVL200 connections

4