

Selection and Ordering data		Order No.
SITRANS LVS200, standard		7 ML 5 7 3 1 -
Vibrating point level switch for high or low levels of bulk solids		 A 0
Power supply		
19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)	1	
19 to 230 V AC, 19 to 55 V DC, two relay outputs (DPDT)	2	
18 to 50 V DC PNP	3	
19 to 230 V AC/DC without contact, 2-wire loop powered ¹⁾	4	
7 to 9 V DC (requires NAMUR switch amplifier) NAMUR IEC 60947-5-6, 2-wire ²⁾	5	
8/16 mA or 4 to 20 mA; 12.5 to 35 V DC, 2-wire ³⁾	6	
19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT) basic version ⁴⁾ and ⁵⁾	7	
Process temperature		
Without temperature isolator	A	
With temperature isolator	B	
Separated enclosure - cable length 1.5 m (4.92 ft) [max. temperature process +180 °C (+356 °F)/max. temperature electronics +80 °C (+176 °F)]	C	
Separated enclosure - cable length 4.0 m (13.12 ft) [max. temperature process +180 °C (+356 °F)/max. temperature electronics +80 °C (+176 °F)]	D	
Process connection		
<u>Threaded</u>		
R 1½" [(BSPT), EN 10226]	A	
1½" NPT [(Taper), ANSI/ASME B1.20.1]	B	
G 2" [(BSPP), EN ISO 228-1], sliding sleeve [min. length 500 mm (19.69")] ⁶⁾	C	
2" NPT [(Taper), ANSI/ASME B1.20.1], sliding sleeve [min. length 500 mm (19.69")] ⁶⁾	D	
<u>Flanged</u>		
DN100 PN 6, EN1092-1 (1.4541/321)	E	
DN100 PN 16, EN1092-1 (1.4541/321)	F	
2" ASME 150 lbs B16.5 (1.4541/321)	G	
3" ASME 150 lbs B16.5 (1.4541/321)	H	
4" ASME 150 lbs B16.5 (1.4541/321)	J	
Extension length		
<u>Stainless steel 304 (1.4301)</u>		
Standard length, 230 mm (9.06") ⁷⁾	1 1	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
• 300 to 500 mm (11.81 to 19.69") ⁷⁾	1 2	
• 501 to 750 mm (19.72 to 29.53") ⁷⁾	1 3	
• 751 to 1000 mm (29.57 to 39.37") ⁷⁾	1 4	
• 1001 to 1250 mm (39.41 to 49.21") ⁷⁾	1 5	
• 1251 to 1500 mm (49.25 to 59.06") ⁷⁾	1 6	
• 1501 to 1750 mm (59.09 to 68.90") ⁷⁾	1 7	
• 1751 to 2000 mm (68.94 to 78.74") ⁷⁾	1 8	
• 2001 to 2250 mm (78.78 to 88.58") ⁷⁾	2 1	
• 2251 to 2500 mm (88.62 to 98.43") ⁷⁾	2 2	
• 2501 to 2750 mm (98.46 to 108.27") ⁷⁾	2 3	
• 2751 to 3000 mm (108.31 to 118.11") ⁷⁾	2 4	
• 3001 to 3250 mm (118.15 to 127.95") ⁷⁾	2 5	
• 3251 to 3500 mm (127.99 to 137.80") ⁷⁾	2 6	
• 3501 to 3750 mm (137.83 to 147.64") ⁷⁾	2 7	
• 3751 to 4000 mm (147.68 to 157.48") ⁷⁾	2 8	
<u>Stainless Steel 316Ti (1.4571)</u>		
Standard length, 230 mm (9.06") ⁸⁾	3 1	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
• 300 to 500 mm (11.81 to 19.69") ⁸⁾	3 2	
• 501 to 750 mm (19.72 to 29.53") ⁸⁾	3 3	
• 751 to 1000 mm (29.57 to 39.37") ⁸⁾	3 4	

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• 1751 to 2000 mm (68.94 to 78.74") ⁸⁾	3 8	
• 2001 to 2250 mm (78.78 to 88.58") ⁸⁾	4 1	
• 2251 to 2500 mm (88.62 to 98.43") ⁸⁾	4 2	
• 2501 to 2750 mm (98.46 to 108.27") ⁸⁾	4 3	
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• 3501 to 3750 mm (137.83 to 147.64") ⁸⁾	4 7	
• 3751 to 4000 mm (147.68 to 157.48") ⁸⁾	4 8	
Material process connection/extension		
Stainless steel 304 (1.4301)	1	
Stainless steel 316 Ti (1.4571)	2	
Approvals		
CSA/FM Dust Ignition Proof	A	
ATEX II 1/2 D	B	
CSA/FM General Purpose	C	
CE	D	
CSA/FM IS Class I, II, III Div. 1, Groups A, B, C, D, E, F, G, FM Class 1, Aex ia IIC, CSA Class 1, Ex ia IIC ⁹⁾	E	
ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D ⁹⁾	F	
Further designs		Order code
Please add “-Z” to Order No. and specify Order code(s).		
Total insertion length: Enter the total insertion length in plain text description, max. 4000 mm (157.48")	Y01	
Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68")	K05	
Enhanced sensitivity < 5 g/l via electronics, increased fork length to 195 mm (7.68"), and increased aluminum fork width (available only with universal voltage, SPDT, CE/FM and CSA General Purpose approvals)	G01	
Signal bulb inserted in M20 cable gland ¹⁰⁾	A20	
NAMUR 8/16 mA switch amplifiers	A15	
Instruction manual		Order No.
Multi-language		7ML1998-5FT62
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Spare parts		
Replacement Electronics Module (125 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)]	7ML1830-1KL	
Sliding sleeve, 2" BSP (ISO 228)	7ML1830-1JM	
Sliding sleeve, 2" NPT [(Taper), ANSI/ASME B1.20.1]	7ML1830-1JN	
¹⁾ Available with approval options A, B, C, D, E only ²⁾ Available with approval options E, F only ³⁾ Available with approval option D only ⁴⁾ Available only with process temperature option A (process connection A with approval option B, or process connection B with approval option A), extension length 11 and material process connection 1 ⁵⁾ Basic version is cost effective and offers fast delivery. ⁶⁾ Not available with extension length options 11 and 12 ⁷⁾ Available with Material process connection/extension option 1 only ⁸⁾ Available with Material process connection/extension option 2 only ⁹⁾ Available with power supply option 5 only ¹⁰⁾ Available with approval options C, D only		

Selection and Ordering data		Order No.
SITRANS LVS200, liquids/solids interface		7 M L 5 7 3 2 -
Vibrating point level switch for interface applications, and high load applications with short insertion requirements		
Power supply		
19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)	1	
19 to 230 V AC, 19 to 55 V DC, two relay outputs (DPDT)	2	
18 to 50 V DC PNP	3	
19 to 230 V AC/DC without contact, 2-wire loop powered ¹⁾	4	
8/16 mA or 4 to 20 mA; 12.5 to 35 V DC, 2-wire ²⁾	5	
Process temperature		
Without temperature isolator	A	
With temperature isolator	B	
Separated enclosure - cable length 1.5 m (4.92 ft) [max. temperature process +180 °C (+356 °F)/max. temperature electronics +80 °C (+176 °F)]	C	
Separated enclosure - cable length 4.0 m (13.12 ft) [max. temperature process +180 °C (+356 °F)/max. temperature electronics +80 °C (+176 °F)]	D	
Process connection		
<u>Threaded</u>		
R 1½" [(BSPT), EN 10226]	A	
1½" NPT [(Taper), ANSI/ASME B1.20.1]	B	
G 2" [(BSPP), EN ISO 228-1], sliding sleeve [min. length 500 mm (19.69")]	C	
2" NPT [(Taper), ANSI/ASME B1.20.1], sliding sleeve [min. length 500 mm (19.69")]	D	
<u>Flanged</u>		
DN100 PN 6, EN1092-1 (1.4541/321)	E	
DN100 PN 16, EN1092-1 (1.4541/321)	F	
2" ASME 150 lbs B16.5 (1.4541/321)	G	
3" ASME 150 lbs B16.5 (1.4541/321)	H	
4" ASME 150 lbs B16.5 (1.4541/321)	J	
Extension length		
<u>Stainless steel 304 (1.4301)³⁾</u>		
Standard length, 165 mm (6.50")	1 1	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
200 to 500 mm (7.87 to 19.69") ³⁾	1 2	
501 to 750 mm (19.72 to 29.53") ³⁾	1 3	
751 to 1000 mm (29.57 to 39.37") ³⁾	1 4	
1001 to 1250 mm (39.41 to 49.21") ³⁾	1 5	
1251 to 1500 mm (49.25 to 59.06") ³⁾	1 6	
1501 to 1750 mm (59.09 to 68.90") ³⁾	1 7	
1751 to 2000 mm (68.94 to 78.74") ³⁾	1 8	
2001 to 2250 mm (78.78 to 88.58") ³⁾	2 1	
2251 to 2500 mm (88.62 to 98.43") ³⁾	2 2	
2501 to 2750 mm (98.46 to 108.27") ³⁾	2 3	
2751 to 3000 mm (108.31 to 118.11") ³⁾	2 4	
3001 to 3250 mm (118.15 to 127.95") ³⁾	2 5	
3251 to 3500 mm (127.99 to 137.80") ³⁾	2 6	
3501 to 3750 mm (137.83 to 147.64") ³⁾	2 7	
3751 to 4000 mm (147.68 to 157.48") ³⁾	2 8	
<u>Stainless Steel 316Ti (1.4571)</u>		
Standard length, 165 mm (6.50") ⁴⁾	3 1	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
200 to 500 mm (7.87 to 19.69") ⁴⁾	3 2	
501 to 750 mm (19.72 to 29.53") ⁴⁾	3 3	
751 to 1000 mm (29.57 to 39.37") ⁴⁾	3 4	
1001 to 1250 mm (39.41 to 49.21") ⁴⁾	3 5	

Selection and Ordering data		Order No.
SITRANS LVS200, liquids/solids interface		7 M L 5 7 3 2 -
Vibrating point level switch for interface applications, and high load applications with short insertion requirements		
1251 to 1500 mm (49.25 to 59.06") ⁴⁾	3 6	
1501 to 1750 mm (59.09 to 68.90") ⁴⁾	3 7	
1751 to 2000 mm (68.94 to 78.74") ⁴⁾	3 8	
2001 to 2250 mm (78.78 to 88.58") ⁴⁾	4 1	
2251 to 2500 mm (88.62 to 98.43") ⁴⁾	4 2	
2501 to 2750 mm (98.46 to 108.27") ⁴⁾	4 3	
2751 to 3000 mm (108.31 to 118.11") ⁴⁾	4 4	
3001 to 3250 mm (118.15 to 127.95") ⁴⁾	4 5	
3251 to 3500 mm (127.99 to 137.80") ⁴⁾	4 6	
3501 to 3750 mm (137.83 to 147.64") ⁴⁾	4 7	
3751 to 4000 mm (147.68 to 157.48") ⁴⁾	4 8	
Material process connection/extension		
Stainless steel 304 (1.4301)	1	
Stainless steel 316 Ti (1.4571)	2	
Approvals		
CSA/FM Dust Ignition Proof		A
ATEX II 1/2 D		B
CSA/FM General Purpose		C
CE		D
Further designs		Order code
Please add "-Z" to Order No. and specify Order code(s).		
Total insertion length: Enter the total insertion length in plain text description, max. 4000 mm (157.48")	Y01	
Signal bulb inserted in M20 cable gland ⁵⁾	A20	
Instruction manual		Order No.
Multi-language		7ML1998-5FT62
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Spare parts		
Replacement Electronics Module (350 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)]	7ML1830-1KM	
Sliding sleeve, 2" [(BSPP), EN ISO 228-1]	7ML1830-1JM	
Sliding sleeve, 2" NPT [(Taper), ANSI/ASME B1.20.1]	7ML1830-1JN	

¹⁾ Available with approval options B, C, D only

²⁾ Available only with approval option D only

³⁾ Available with material process connection/extension option 1 only

⁴⁾ Available with material process connection/extension option 2 only

⁵⁾ Available with approval options C, D only

Selection and Ordering data		Order No.
SITRANS LVS200, pipe extension Vibrating point level switch for high or low levels of bulk solids Extended using 1" pipe extension (customer supplied)		7 M L 5 7 3 3 - A 0
Power supply 19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT) 19 to 230 V AC, 19 to 55 V DC, two relay outputs (DPDT) 18 to 50 V DC PNP 19 to 230 V AC/DC without contact, 2-wire loop powered ¹⁾ 7 to 9 V DC (requires NAMUR switch amplifier) NAMUR IEC 60947-5-6, 2-wire ²⁾ 8/16 mA or 4 to 20 mA; 12.5 to 35 V DC, 2-wire ³⁾		1 2 3 4 5 6
Process temperature Up to +150 °C (+302 °F)		A
Process connection <u>Threaded</u> R 1½" [(BSPT), EN 10226] 1½" NPT [(Taper), ANSI/ASME B1.20.1] <u>Flanged</u> DN100 PN 6, EN1092-1 (1.4541/321) DN100 PN 16, EN1092-1 (1.4541/321) 2" ASME 150 lbs B16.5 (1.4541/321) 3" ASME 150 lbs B16.5 (1.4541/321) 4" ASME 150 lbs B16.5 (1.4541/321)		A B C D E F G
Process connection material Stainless steel 304 (1.4301) Stainless steel 316 TI (1.4571)		1 2
Extension length Customer supplied 1" pipe extension Length: 300 to 3800 mm (11.81 to 149.61")		1
Application type Dry bulk solids (125 Hz) Liquids/solids interface (350 Hz)		1 2
Approvals CSA/FM Dust Ignition Proof ATEX II 1/2 D CSA/FM General Purpose CE CSA/FM IS Class I, II, III Div. 1, Groups A, B, C, D, E, F, G, FM Class 1, Aex ia IIC, CSA Class 1, Ex ia IIC ⁴⁾ ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D ⁴⁾		A B C D E F
Further designs Please add "-Z" to Order No. and specify Order code(s). Enter the total insertion length in plain text description, min. 300 mm (11.81") max. 3800 mm (149.61") Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68 ") Signal bulb inserted in M20 cable gland ⁵⁾ NAMUR 8 to 16 mA switch amplifiers		Order code Y01 K05 A20 A15

Selection and Ordering data		Order No.
SITRANS LVS200, pipe extension Vibrating point level switch for high or low levels of bulk solids Extended using 1" pipe extension (customer supplied)		7 M L 5 7 3 3 - A 0
Instruction manual Multi-language Note: One instruction manual is shipped with this product. This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		7ML1998-5FT62
Spare parts Replacement Electronics Module (125 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)] Replacement Electronics Module (350 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)]		7ML1830-1KL 7ML1830-1KM
¹⁾ Available with approval options A, B, C, D, E only ²⁾ Available with approval options E and F only ³⁾ Available with approval option D only ⁴⁾ Available with power supply option 5 only ⁵⁾ Available with approval options C, D only		

Selection and Ordering data		Order No.
SITRANS LVS200, cable extended Vibrating point level switch for high or low levels of bulk solids		7 M L 5 7 3 4 - A 0
Power supply 19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT) 19 to 230 V AC, 19 to 55 V DC, two relay outputs (DPDT) 18 to 50 V DC PNP 19 to 230 V AC/DC without contact, 2-wire loop powered ¹⁾ 7 to 9 V DC (requires NAMUR switch amplifier) NAMUR IEC 60947-5-6, 2-wire ²⁾ and ³⁾ 8/16 mA or 4 to 20 mA; 12.5 to 35 V DC, 2-wire ⁴⁾		1 2 3 4 5 6
Process temperature Up to +80 °C (+176 °F)		A
Process connection <u>Threaded</u> R 1½" [(BSPT), EN 10226] 1½" NPT [(Taper), ANSI/ASME B1.20.1] <u>Flanged</u> DN100 PN 6, EN1092-1 (1.4541/321) DN100 PN 16, EN1092-1 (1.4541/321) 2" ASME 150 lbs B16.5 (1.4541/321) 3" ASME 150 lbs B16.5 (1.4541/321) 4" ASME 150 lbs B16.5 (1.4541/321)		A B C D E F G
Extension length 500 to 1000 mm (19.7 to 39.4") [max. length 20000 mm (787.4"), not with Power supply option 5 (max. 10000 mm, 393.7")] <u>Add order code Y01 and plain text: "Insertion length...mm"</u> 1001 to 2000 mm (39.41 to 78.74") 2001 to 3000 mm (78.78 to 118.11") 3001 to 4000 mm (118.15 to 157.48") 4001 to 5000 mm (157.52 to 196.85") 5001 to 6000 mm (196.89 to 236.22") 6001 to 7000 mm (236.26 to 275.59") 7001 to 8000 mm (275.63 to 314.96") 8001 to 9000 mm (315 to 354.33") 9001 to 10000 mm (354.37 to 393.70") 10001 to 11000 mm (393.74 to 433.07") 11001 to 12000 mm (433.11 to 472.44") 12001 to 13000 mm (472.48 to 511.81") 13001 to 14000 mm (511.85 to 551.18") 14001 to 15000 mm (551.22 to 590.55") 15001 to 16000 mm (590.59 to 629.92") 16001 to 17000 mm (629.96 to 669.29") 17001 to 18000 mm (669.33 to 708.66") 18001 to 19000 mm (708.70 to 748.03") 19001 to 20000 mm (748.07 to 787.40")		1 0 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 2 0 2 1 2 2 2 3 2 4 2 5 2 6 2 7 2 8 3 0 3 1
Application type Dry bulk solids (125 Hz) Liquid/solids interface (350 Hz) ⁵⁾		1 2

Selection and Ordering data		Order No.
SITRANS LVS200, cable extended Vibrating point level switch for high or low levels of bulk solids		7 M L 5 7 3 4 - A 0
Approvals CSA/FM Dust Ignition Proof ATEX II 1/2 D CSA/FM General Purpose CE CSA/FM IS Class I, II, III Div. 1, Groups A, B, C, D, E, F, G, FM Class 1, Aex ia IIC, CSA Class 1, Ex ia IIC ⁶⁾ and ⁷⁾ ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D ^{and 5)}		A B C D E F
Further designs Please add "-Z" to Order No. and specify Order code(s). Enter the total insertion length in plain text description, max. 20000 mm (787.40") Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68") Signal bulb inserted in M20 cable gland ⁴⁾ NAMUR 8 to 16 mA switch amplifiers		Order code Y01 K05 A20 A15
Instruction manual Multi-language This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		Order No. 7ML1998-5FT62
Spare parts Replacement Electronics Module (125 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)] Replacement Electronics Module (350 Hz) [19 to 230 V AC, 19 to 55 V DC, one relay output (SPDT)]		7ML1830-1KL 7ML1830-1KM

¹⁾ Available with approval options A, B, C, D, E only
²⁾ Available with approval options E and F only
³⁾ Cable length is limited to 10000 mm (393.70")
⁴⁾ Available with approval options C, D only
⁵⁾ Cable length is limited to 7000 mm (275.59")
⁶⁾ Available with power supply option 5 only
⁷⁾ Available with application type 1 only