

# Level Measurement

## Point level measurement – Vibrating switches

### SITRANS LVS200

4

| Selection and Ordering data  | Article No.                         |
|--|-------------------------------------|
| <b>SITRANS LVS200, standard</b><br>SITRANS LVS200 is a vibrating point level switch for high, low, or demand level detection of bulk solids. | <b>7ML5731-</b><br>■■■■■ - ■■■■ A 0 |
| <b>Power supply</b>  |                                     |
| 19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT) <sup>1)</sup>   | 1                                   |
| 19 ... 230 V AC, 19 ... 55 V DC, two relay outputs (DPDT) <sup>1)</sup>  | 2                                   |
| 18 ... 50 V DC PNP <sup>1)</sup>   | 3                                   |
| 19 ... 230 V AC/DC without contact, 2-wire loop powered <sup>1)</sup>  | 4                                   |
| 7 ... 9 V DC (requires NAMUR switch amplifier) NAMUR IEC 60947-5-6, 2-wire <sup>2)</sup>   | 5                                   |
| 8/16 mA or 4 ... 20 mA; 12.5 ... 35 V DC, 2-wire <sup>3)</sup>   | 6                                   |
| 19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT) basic version <sup>4)5)</sup>   | 7                                   |
| <b>Process temperature</b>   |                                     |
| Without temperature isolator   | A                                   |
| With temperature isolator  | B                                   |
| Separated enclosure - cable length 1.5 m (4.92 ft) [max. temperature process 150 °C (302 °F)/ max. temperature electronics 60 °C (140 °F)]   | C                                   |
| Separated enclosure - cable length 4.0 m (13.12 ft) [max. temperature process 150 °C (302 °F)/ max. temperature electronics 60 °C (140 °F)]  | D                                   |
| <b>Process connection</b>  |                                     |
| <b>Threaded</b>  |                                     |
| 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 inch)] <sup>6)</sup>  | C                                   |
| 2" NPT [(Taper), ANSI/ASME B1.20.1], sliding sleeve [min. length 500 mm (19.69 inch)] <sup>6)</sup>  | D                                   |
| <b>Flanged</b>   |                                     |
| DN 100 PN 6, EN 1092-1 <sup>7)</sup>   | E                                   |
| DN 100 PN 16, EN 1092-1  | F                                   |
| 2" ASME 150 lb B16.5   | G                                   |
| 3" ASME 150 lb B16.5   | H                                   |
| 4" ASME 150 lb B16.5   | J                                   |
| 2" Tri-clamp (DN 50) ISO 2852  | K                                   |
| <b>Extension length</b>  |                                     |
| <b>Stainless steel 304 (1.4301)</b>  |                                     |
| Standard length, 235 mm (9.25 inch)  | 11                                  |
| <b>Add Order code Y01 and plain text: "Insertion length ... mm"</b>  |                                     |
| • 300 ... 500 mm (11.81 ... 19.69 inch)  | 12                                  |
| • 501 ... 750 mm (19.72 ... 29.53 inch)  | 13                                  |
| • 751 ... 1 000 mm (29.57 ... 39.37 inch)  | 14                                  |
| • 1 001 ... 1 250 mm (39.41 ... 49.21 inch)  | 15                                  |
| • 1 251 ... 1 500 mm (49.25 ... 59.06 inch)  | 16                                  |
| • 1 501 ... 1 750 mm (59.09 ... 68.90 inch)  | 17                                  |
| • 1 751 ... 2 000 mm (68.94 ... 78.74 inch)  | 18                                  |
| • 2 001 ... 2 250 mm (78.78 ... 88.58 inch)  | 21                                  |
| • 2 251 ... 2 500 mm (88.62 ... 98.43 inch)  | 22                                  |
| • 2 501 ... 2 750 mm (98.46 ... 108.27 inch)   | 23                                  |
| • 2 751 ... 3 000 mm (108.31 ... 118.11 inch)  | 24                                  |
| • 3 001 ... 3 250 mm (118.15 ... 127.95 inch)  | 25                                  |
| • 3 251 ... 3 500 mm (127.99 ... 137.80 inch)  | 26                                  |
| • 3 501 ... 3 750 mm (137.83 ... 147.64 inch)  | 27                                  |
| • 3 751 ... 4 000 mm (147.68 ... 157.48 inch)  | 28                                  |

| Selection and Ordering data  | Article No.                         |
|--|-------------------------------------|
| <b>SITRANS LVS200, standard</b><br>SITRANS LVS200 is a vibrating point level switch for high, low, or demand level detection of bulk solids. | <b>7ML5731-</b><br>■■■■■ - ■■■■ A 0 |
| <b>Stainless steel 316L (1.4404)</b>   |                                     |
| Standard length, 235 mm (9.25 inch)  | 31                                  |
| <b>Add Order code Y01 and plain text: "Insertion length ... mm"</b>  |                                     |
| 300 ... 500 mm (11.81 ... 19.69 inch)  | 32                                  |
| 501 ... 750 mm (19.72 ... 29.53 inch)  | 33                                  |
| 751 ... 1 000 mm (29.57 ... 39.37 inch)  | 34                                  |
| 1 001 ... 1 250 mm (39.41 ... 49.21 inch)  | 35                                  |
| 1 251 ... 1 500 mm (49.25 ... 59.06 inch)  | 36                                  |
| 1 501 ... 1 750 mm (59.09 ... 68.90 inch)  | 37                                  |
| 1 751 ... 2 000 mm (68.94 ... 78.74 inch)  | 38                                  |
| 2 001 ... 2 250 mm (78.78 ... 88.58 inch)  | 41                                  |
| 2 251 ... 2 500 mm (88.62 ... 98.43 inch)  | 42                                  |
| 2 501 ... 2 750 mm (98.46 ... 108.27 inch)   | 43                                  |
| 2 751 ... 3 000 mm (108.31 ... 118.11 inch)  | 44                                  |
| 3 001 ... 3 250 mm (118.15 ... 127.95 inch)  | 45                                  |
| 3 251 ... 3 500 mm (127.99 ... 137.80 inch)  | 46                                  |
| 3 501 ... 3 750 mm (137.83 ... 147.64 inch)  | 47                                  |
| 3 751 ... 4 000 mm (147.68 ... 157.48 inch)  | 48                                  |
| <b>Material process connection/extension</b>   |                                     |
| Stainless steel threads 304 (1.4301), flanges 321 (1.4541), Tri-clamp 304 (1.4301) <sup>8)</sup>   | 1                                   |
| Stainless steel 316L (1.4404) <sup>9)</sup>  | 2                                   |
| <b>Approvals</b>   |                                     |
| CSA/FM Dust Ignition Proof, C-TICK   | A                                   |
| ATEX II 1/2 D, C-TICK  | B                                   |
| CSA/FM General Purpose, C-TICK   | C                                   |
| CE, C-TICK   | 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, C-TICK                        | E                                   |
| ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D, C-TICK  | F                                   |
| IEC-Ex t IIIC Da/Db  | G                                   |
| 1) Available with Approval options A ... D, G only   |                                     |
| 2) Available with Approval options D, E, F only  |                                     |
| 3) Available with Approval options B, D, G only  |                                     |
| 4) Available with configurations 7ML5731-7AA11-1BA0 or 7ML5731-7AB11-1AA0 only   |                                     |
| 5) Basic version is cost effective and offers fast delivery  |                                     |
| 6) Not available with extension length options 11 ... 28   |                                     |
| 7) Max. 6 bar (87 psi)   |                                     |
| 8) Available with option extension length 11 ... 28  |                                     |
| 9) Available with option extension length 31 ... 48  |                                     |
| • We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ■. For details see page 9/5 in the appendix.  |                                     |
| ▶ Available ex stock.  |                                     |

# Level Measurement

## Point level measurement – Vibrating switches

### SITRANS LVS200

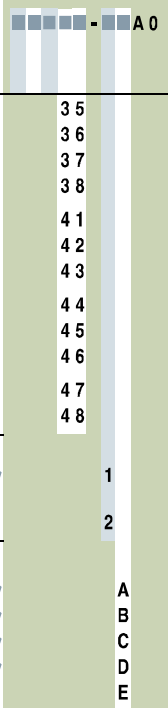
4

| Selection and Ordering data  | Order code                          | Selection and Ordering data  | Article No.                                |
|--|-------------------------------------|--|--|
| <b>Further Designs</b><br>Please add <b>"-Z"</b> to Article No. and specify Order code(s).   |                                     | <b>SITRANS LVS200, short fork for liquids/solids interface</b><br>Vibrating point level switch for solids or solids within liquid interface applications, and high load applications with short insertion requirements | <b>7ML5732-</b><br>■■■■■ - ■■■■ <b>A 0</b> |
| Total insertion length: Enter the total insertion length in plain text description, max. 4 000 mm (157.48 inch)  | <b>Y01</b>                          | <b>Power supply</b><br>19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)  | <b>1</b>                                   |
| Stainless steel tag [100 x 45 mm (3.94 x 1.77 inch)]; Measuring-point number/identification (max. 27 characters); specify in plain text  | <b>Y14</b>                          | 19 ... 230 V AC, 19 ... 55 V DC, two relay outputs (DPDT)  | <b>2</b>                                   |
| Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68 inch)   | <b>K05</b>                          | 18 ... 50 V DC PNP   | <b>3</b>                                   |
| Enhanced sensitivity < 5 g/l via electronics, increased fork length to 195 mm (7.68 inch), and increased aluminum fork width <sup>1)</sup>   | <b>G01</b>                          | 19 ... 230 V AC/DC without contact, 2-wire loop powered  | <b>4</b>                                   |
| Signal bulb inserted in M20 cable gland <sup>2)</sup>  | <b>A20</b>                          | 8/16 mA or 4 ... 20 mA; 12.5 ... 35 V DC, 2-wire <sup>1)</sup>   | <b>5</b>                                   |
| NAMUR 8/16 mA switch amplifiers available, contact factory for pricing   |                                     | <b>Process temperature</b><br>Without temperature isolator   | <b>A</b>                                   |
|  |                                     | With temperature isolator  | <b>B</b>                                   |
|  |                                     | Separated enclosure - cable length 1.5 m (4.92 ft) [max. temperature process 150 °C (302 °F)/ max. temperature electronics 60 °C (140 °F)]   | <b>C</b>                                   |
|  |                                     | Separated enclosure - cable length 4.0 m (13.12 ft) [max. temperature process 150 °C (302 °F)/ max. temperature electronics 60 °C (140 °F)]  | <b>D</b>                                   |
| <b>Operating Instructions</b><br>Multi-language<br>This device is shipped with the Siemens Miltronics manual DVD containing the ATEX Quick Start and Operating Instructions library. | Article No.<br><b>7ML1998-5FT63</b> | <b>Process connection</b><br><b>Threaded</b><br>R 1½" [(BSPT), EN 10226]   | <b>A</b>                                   |
|  |                                     | 1½" NPT [(Taper), ANSI/ASME B1.20.1]   | <b>B</b>                                   |
|  |                                     | G 2" [(BSPP), EN ISO 228-1], sliding sleeve [min. length 500 mm (19.69 inch)] <sup>2)</sup>  | <b>C</b>                                   |
|  |                                     | 2" NPT [(Taper), ANSI/ASME B1.20.1], sliding sleeve [min. length 500 mm (19.69 inch)] <sup>2)</sup>  | <b>D</b>                                   |
|  |                                     | <b>Flanged</b><br>DN 100 PN 6, EN 1092-1 <sup>3)</sup>   | <b>E</b>                                   |
|  |                                     | DN 100 PN 16, EN 1092-1  | <b>F</b>                                   |
|  |                                     | 2" ASME 150 lb B16.5   | <b>G</b>                                   |
|  |                                     | 3" ASME 150 lb B16.5   | <b>H</b>                                   |
|  |                                     | 4" ASME 150 lb B16.5   | <b>J</b>                                   |
|  |                                     | 2" Tri-clamp (DN 50) ISO 2852  | <b>K</b>                                   |
|  |                                     | <b>Extension length</b><br><b>Stainless steel 304 (1.4301)</b><br>Standard length, 165 mm (6.50 inch)  | <b>1 1</b>                                 |
|  |                                     | <b>Add Order code Y01 and plain text:</b><br><b>"Insertion length ... mm"</b>  |  |
|  |                                     | 200 ... 500 mm (7.87 ... 19.69 inch)   | <b>1 2</b>                                 |
|  |                                     | 501 ... 750 mm (19.72 ... 29.53 inch)  | <b>1 3</b>                                 |
|  |                                     | 751 ... 1 000 mm (29.57 ... 39.37 inch)  | <b>1 4</b>                                 |
|  |                                     | 1 001 ... 1 250 mm (39.41 ... 49.21 inch)  | <b>1 5</b>                                 |
|  |                                     | 1 251 ... 1 500 mm (49.25 ... 59.06 inch)  | <b>1 6</b>                                 |
|  |                                     | 1 501 ... 1 750 mm (59.09 ... 68.90 inch)  | <b>1 7</b>                                 |
|  |                                     | 1 751 ... 2 000 mm (68.94 ... 78.74 inch)  | <b>1 8</b>                                 |
|  |                                     | 2 001 ... 2 250 mm (78.78 ... 88.58 inch)  | <b>2 1</b>                                 |
|  |                                     | 2 251 ... 2 500 mm (88.62 ... 98.43 inch)  | <b>2 2</b>                                 |
|  |                                     | 2 501 ... 2 750 mm (98.46 ... 108.27 inch)   | <b>2 3</b>                                 |
|  |                                     | 2 751 ... 3 000 mm (108.31 ... 118.11 inch)  | <b>2 4</b>                                 |
|  |                                     | 3 001 ... 3 250 mm (118.15 ... 127.95 inch)  | <b>2 5</b>                                 |
|  |                                     | 3 251 ... 3 500 mm (127.99 ... 137.80 inch)  | <b>2 6</b>                                 |
|  |                                     | 3 501 ... 3 750 mm (137.83 ... 147.64 inch)  | <b>2 7</b>                                 |
|  |                                     | 3 751 ... 4 000 mm (147.68 ... 157.48 inch)  | <b>2 8</b>                                 |
|  |                                     | <b>Stainless steel 316L (1.4404)</b><br>Standard length, 165 mm (6.50 inch)  | <b>3 1</b>                                 |
|  |                                     | <b>Add Order code Y01 and plain text:</b><br><b>"Insertion length ... mm"</b>  |  |
|  |                                     | 200 ... 500 mm (7.87 ... 19.69 inch)   | <b>3 2</b>                                 |
|  |                                     | 501 ... 750 mm (19.72 ... 29.53 inch)  | <b>3 3</b>                                 |
|  |                                     | 751 ... 1 000 mm (29.57 ... 39.37 inch)  | <b>3 4</b>                                 |
| <sup>1)</sup> Available only with power supply 1 and Approval C, D and with Process connection flange E ... J  |                                     |  |  |
| <sup>2)</sup> Available with Approval option D only  |                                     |  |  |

# Level Measurement

## Point level measurement – Vibrating switches

SITRANS LVS200

| Selection and Ordering data   | Article No.  | Selection and Ordering data  | Order code   |
|---|--|--|--|
| <b>SITRANS LVS200, short fork for liquids/solids interface</b><br>Vibrating point level switch for solids or liquids within liquid interface applications, and high load applications with short insertion requirements | <b>7ML5732-</b><br> <b>A 0</b> | <b>Further Designs</b><br>Please add "-Z" to Article No. and specify Order code(s).<br><br>Total insertion length: Enter the total insertion length in plain text description, max. 4 000 mm (147.48 inch)<br><br>Stainless steel tag [100 x 45 mm (3.94 x 1.77 inch)]: Measuring-point number/identification (max. 27 characters); specify in plain text<br><br>Signal bulb inserted in M20 cable gland <sup>1)</sup> | <br><b>Y01</b><br><br><b>Y14</b><br><br><b>A20</b> |
| 1 001 ... 1 250 mm (39.41 ... 49.21 inch)   | <b>3 5</b>   | <b>Operating Instructions</b>  | Article No.  |
| 1 251 ... 1 500 mm (49.25 ... 59.06 inch)   | <b>3 6</b>   | Multi-language<br>This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.   | <b>7ML1998-5FT63</b>                               |
| 1 501 ... 1 750 mm (59.09 ... 68.90 inch)   | <b>3 7</b>   | <b>Spare Parts</b>   |  |
| 1 751 ... 2 000 mm (68.94 ... 78.74 inch)   | <b>3 8</b>   | Replacement Electronics Module (350 Hz) [19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)]   | <b>7ML1830-1KM</b>                                 |
| 2 001 ... 2 250 mm (78.78 ... 88.58 inch)   | <b>4 1</b>   | Sliding sleeve, 2" BSP (ISO 228)   | <b>7ML1830-1JM</b>                                 |
| 2 251 ... 2 500 mm (88.62 ... 98.43 inch)   | <b>4 2</b>   | Sliding sleeve, 2" NPT (ASME B1.20.1)  | <b>7ML1830-1JN</b>                                 |
| 2 501 ... 2 750 mm (98.46 ... 108.27 inch)  | <b>4 3</b>   |  |  |
| 2 751 ... 3 000 mm (108.31 ... 118.11 inch)   | <b>4 4</b>   |  |  |
| 3 001 ... 3 250 mm (118.15 ... 127.95 inch)   | <b>4 5</b>   |  |  |
| 3 251 ... 3 500 mm (127.99 ... 137.80 inch)   | <b>4 6</b>   |  |  |
| 3 501 ... 3 750 mm (137.83 ... 147.64 inch)   | <b>4 7</b>   |  |  |
| 3 751 ... 4 000 mm (147.68 ... 157.48 inch)   | <b>4 8</b>   |  |  |
| <b>Material process connection/extension</b>  |  |  |  |
| Stainless steel threads 304 (1.4301), flanges 321(1.4541), Tri-clamp 304 (1.4301) <sup>4)</sup>   | 1  |  |  |
| Stainless steel 316L (1.4404) <sup>5)</sup>   | 2  |  |  |
| <b>Approvals</b>  |  |  |  |
| CSA/FM Dust Ignition Proof, C-TICK  | ◆  |  | <b>A</b>   |
| ATEX II 1/2 D, C-TICK   | ◆  |  | <b>B</b>   |
| CSA/FM General Purpose, C-TICK  | ◆  |  | <b>C</b>   |
| CE, C-TICK  | ◆  |  | <b>D</b>   |
| IEC-Ex t IIIC Da/Db   | ◆  |  | <b>E</b>   |

<sup>1)</sup> Available with Approval option B, D, E only

<sup>2)</sup> Not available with extension length options 11,12, 31, 32

<sup>3)</sup> Max. 6 bar (87psi)

<sup>4)</sup> Available with option extension length 11 ... 28

<sup>5)</sup> Available with option extension length 31 ... 48

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

# Level Measurement

## Point level measurement – Vibrating switches

### SITRANS LVS200

| Selection and Ordering data   | Article No.                          |
|---|--------------------------------------|
| <b>SITRANS LVS200, pipe extension</b><br>Vibrating point level switch for high or low levels of bulk solids<br>Extended using 1" pipe extension (customer supplied)   | 7ML5733-<br>A 0                      |
| <b>Power supply</b><br>19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT) <sup>1)</sup><br>19 ... 230 V AC, 19 ... 55 V DC, two relay outputs (DPDT) <sup>1)</sup><br>18 ... 50 V DC PNP <sup>1)</sup><br>19 ... 230 V AC/DC without contact, 2-wire loop powered <sup>1)</sup><br>7 ... 9 V DC (requires NAMUR switch amplifier) NAMUR IEC 60947-5-6, 2-wire <sup>2)</sup><br>8/16 mA or 4 ... 20 mA; 12.5 ... 35 V DC, 2-wire <sup>3)</sup> | 1<br>2<br>3<br>4<br>5<br>6           |
| <b>Process temperature</b><br>Up to 150 °C (302 °F)   | A                                    |
| <b>Process connection</b><br><u>Threaded</u><br>R 1½" [(BSPT), EN 10226]<br>1½" NPT [(Taper), ANSI/ASME B1.20.1]<br><u>Flanged</u><br>DN 100 PN 6, EN 1092-1 <sup>4)</sup><br>DN 100 PN 16, EN 1092-1<br>2" ASME 150 lb B16.5<br>3" ASME 150 lb B16.5<br>4" ASME 150 lb B16.5<br>2" Tri-clamp (DN 50) ISO 2852  | A<br>B<br>C<br>D<br>E<br>F<br>G<br>K |
| <b>Process connection material</b><br>Stainless steel threads 304 (1.4301), flanges 321 (1.4541), Tri-clamp 304 (1.4301)<br>Stainless steel 316L (1.4404)   | 1<br>2                               |
| <b>Extension length</b><br>Customer supplied 1" pipe extension<br>Length: 300 ... 3 800 mm (11.81 ... 149.61 inch)  | 1                                    |
| <b>Application type</b><br>Dry bulk solids (125 Hz)<br>Liquids/solids interface (350 Hz)  | 1<br>2                               |
| <b>Approvals</b><br>CSA/FM Dust Ignition Proof, C-TICK<br>ATEX II 1/2 D, C-TICK<br>CSA/FM General Purpose, C-TICK<br>CE, C-TICK<br>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, C-TICK<br>ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D, C-TICK<br>IEC-Ex t IIIC Da/Db  | A<br>B<br>C<br>D<br>E<br>F<br>H      |

<sup>1)</sup> Available with Approval options A, B, C, D, G only

<sup>2)</sup> Available with Approval options D, E and F only.  
Not available for application type 2 "Liquids/solids interface".

<sup>3)</sup> Available with Approval options B, D, G only

<sup>4)</sup> Max. 6 bar (87 psi)

| Selection and Ordering data   | Order code                   |
|---|------------------------------|
| <b>Further Designs</b><br>Please add "-Z" to Article No. and specify Order code(s).   |                              |
| Total insertion length: Enter the total insertion length in plain text description, max. 3 800 mm (149.61 inch)   | Y01                          |
| Stainless steel tag [100 x 45 mm (3.94 x 1.77 inch)]:<br>Measuring-point number/identification (max. 27 characters); specify in plain text  | Y14                          |
| Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68 inch)  | K05                          |
| Enhanced sensitivity < 5 g/l via electronics, increased fork length to 195 mm (7.68 inch) and increased aluminum fork width <sup>1)</sup>   | G01                          |
| Signal bulb inserted in M20 cable gland <sup>2)</sup>   | A20                          |
| <b>Operating Instructions</b><br>Multi-language<br>This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library. | Article No.<br>7ML1998-5FT63 |
| <b>Spare Parts</b><br>Replacement Electronics Module (125 Hz) [19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)]  | 7ML1830-1KL                  |
| Replacement Electronic Module (350 Hz) [19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)]   | 7ML1830-1KM                  |
| Isolated switch amplifier relay output KFD2-SR2-Ex I.W  | A5E03496569                  |

<sup>1)</sup> Available only with power supply 1 and Approvals C, D and with Process connection flange C ... G

<sup>2)</sup> Available with Approval option D only

# Level Measurement

## Point level measurement – Vibrating switches

SITRANS LVS200

| Selection and Ordering data   | Article No.                             |
|---|---|
| <b>SITRANS LVS200, cable extended</b><br>Vibrating point level switch for high or low level detection of bulk solids materials          | <b>7ML5734-</b><br>- - - - - <b>A 0</b> |
| <b>Power supply</b>   |   |
| 19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT) <sup>1)</sup>  | <b>1</b>                                |
| 19 ... 230 V AC, 19 ... 55 V DC, two relay outputs (DPDT) <sup>1)</sup>   | <b>2</b>                                |
| 18 ... 50 V DC PNP <sup>1)</sup>  | <b>3</b>                                |
| 19 ... 230 V AC/DC without contact, 2-wire loop powered <sup>1)</sup>   | <b>4</b>                                |
| 7 ... 9 V DC (requires NAMUR switch amplifier)  | <b>5</b>                                |
| NAMUR IEC 60947-5-6, 2-wire <sup>2)</sup>   | <b>6</b>                                |
| 8/16 mA or 4 ... 20 mA; 12.5 ... 35 V DC, 2-wire <sup>3)</sup>  | <b>6</b>                                |
| <b>Process temperature</b>  |   |
| Up to 80 °C (176 °F)  | <b>A</b>                                |
| <b>Process connection</b>   |   |
| <b>Threaded</b>   |   |
| R 1½" [(BSPT), EN 10226] (1.4301/304)   | <b>A</b>                                |
| 1½" NPT [(Taper), ANSI/ASME B1.20.1] (1.4301/304)   | <b>B</b>                                |
| <b>Flanged</b>  |   |
| DN 100 PN 6, EN 1092-1 (1.4541/321) <sup>4)</sup>   | <b>C</b>                                |
| DN 100 PN 16, EN 1092-1 (1.4541/321)  | <b>D</b>                                |
| 2" ASME 150 lb B16.5 (1.4541/321)   | <b>E</b>                                |
| 3" ASME 150 lb B16.5 (1.4541/321)   | <b>F</b>                                |
| 4" ASME 150 lb B16.5 (1.4541/321)   | <b>G</b>                                |
| <b>Extension length</b>   |   |
| 750 ... 1 000 mm (29.5 ... 39.4 inch) [max. length 20 000 mm (787.4 inch), not with Power supply option 5 (max. 10 000 mm, 393.7 inch)] | <b>1 0</b>                              |
| <b>Add Order code Y01 and plain text: "Insertion length ... mm"</b>   |   |
| 1 001 ... 2 000 mm (39.41 ... 78.74 inch)   | <b>1 1</b>                              |
| 2 001 ... 3 000 mm (78.78 ... 118.11 inch)  | <b>1 2</b>                              |
| 3 001 ... 4 000 mm (118.15 ... 157.48 inch)   | <b>1 3</b>                              |
| 4 001 ... 5 000 mm (157.52 ... 196.85 inch)   | <b>1 4</b>                              |
| 5 001 ... 6 000 mm (196.89 ... 236.22 inch)   | <b>1 5</b>                              |
| 6 001 ... 7 000 mm (236.26 ... 275.59 inch)   | <b>1 6</b>                              |
| 7 001 ... 8 000 mm (275.63 ... 314.96 inch) <sup>5)</sup>   | <b>1 7</b>                              |
| 8 001 ... 9 000 mm (315 ... 354.33 inch) <sup>5)</sup>  | <b>1 8</b>                              |
| 9 001 ... 10 000 mm (354.37 ... 393.70 inch) <sup>5)</sup>  | <b>2 0</b>                              |
| 10 001 ... 11 000 mm (393.74 ... 433.07 inch) <sup>5)6)</sup>   | <b>2 1</b>                              |
| 11 001 ... 12 000 mm (433.11 ... 472.44 inch) <sup>5)6)</sup>   | <b>2 2</b>                              |
| 12 001 ... 13 000 mm (472.48 ... 511.81 inch) <sup>5)6)</sup>   | <b>2 3</b>                              |
| 13 001 ... 14 000 mm (511.85 ... 551.18 inch) <sup>5)6)</sup>   | <b>2 4</b>                              |
| 14 001 ... 15 000 mm (551.22 ... 590.55 inch) <sup>5)6)</sup>   | <b>2 5</b>                              |
| 15 001 ... 16 000 mm (590.59 ... 629.92 inch) <sup>5)6)</sup>   | <b>2 6</b>                              |
| 16 001 ... 17 000 mm (629.96 ... 669.29 inch) <sup>5)6)</sup>   | <b>2 7</b>                              |
| 17 001 ... 18 000 mm (669.33 ... 708.66 inch) <sup>5)6)</sup>   | <b>2 8</b>                              |
| 18 001 ... 19 000 mm (708.70 ... 748.03 inch) <sup>5)6)</sup>   | <b>3 0</b>                              |
| 19 001 ... 20 000 mm (748.07 ... 787.40 inch) <sup>5)6)</sup>   | <b>3 1</b>                              |
| <b>Application type</b>   |   |
| Dry bulk solids (125 Hz)  | <b>1</b>                                |
| Liquid/solids interface (350 Hz) <sup>7)</sup>  | <b>2</b>                                |

| Selection and Ordering data  | Article No.                             |
|--|---|
| <b>SITRANS LVS200, cable extended</b><br>Vibrating point level switch for high or low level detection of bulk solids materials | <b>7ML5734-</b><br>- - - - - <b>A 0</b> |
| <b>Approvals</b>   |   |
| CSA/FM Dust Ignition Proof, C-TICK   | <b>A</b>                                |
| ATEX II 1/2 D, C-TICK  | <b>B</b>                                |
| CSA/FM General Purpose, C-TICK   | <b>C</b>                                |
| CE, C-TICK   | <b>D</b>                                |
| 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, C-TICK          | <b>E</b>                                |
| ATEX II 1G and 1/2G Eex ia IIC; ATEX II 1D and 1/2D, C-TICK <sup>6)</sup>  | <b>F</b>                                |
| IEC-Ex t IIIC Da/Db  | <b>G</b>                                |
| <sup>1)</sup> Available with Approval options A, B, C, D, G only   |   |
| <sup>2)</sup> Available with Approval option D, E and F only. Not available for application type 2 "Liquids/solids interface". |   |
| <sup>3)</sup> Available with Approval option D only  |   |
| <sup>4)</sup> Max. 6 bar (87 psi)  |   |
| <sup>5)</sup> Not available with application type option 2   |   |
| <sup>6)</sup> Not available with Power supply option 5   |   |
| <sup>7)</sup> Cable length is limited to 7 000 mm (275.59 inch).   |   |

| Selection and Ordering data  | Order code           |
|--|----------------------|
| <b>Further Designs</b>   |                      |
| Please add <b>"-Z"</b> to Article No. and specify Order code(s).   |                      |
| Enter the total insertion length in plain text description, max. 20 000 mm (787.40 inch)   | <b>Y01</b>           |
| Stainless steel tag [100 x 45 mm (3.94 x 1.77 inch)]: Measuring-point number/identification (max. 27 characters); specify in plain text      | <b>Y14</b>           |
| Enhanced sensitivity > 5 g/l via electronics and increased fork length to 195 mm (7.68 inch)   | <b>K05</b>           |
| Enhanced sensitivity < 5 g/l via electronics and increased fork length to 195 mm (7.68 inch) and increased aluminum fork width <sup>1)</sup> | <b>G01</b>           |
| Signal bulb inserted in M20 cable gland <sup>2)</sup>  | <b>A20</b>           |
| <b>Operating Instructions</b>  | Article No.          |
| Multi-language   | <b>7ML1998-5FT63</b> |
| This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.           |                      |
| <b>Spare Parts</b>   |                      |
| Replacement Electronics Module (125 Hz) [19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)]   | <b>7ML1830-1KL</b>   |
| Replacement Electronics Module (350 Hz) [19 ... 230 V AC, 19 ... 55 V DC, one relay output (SPDT)]   | <b>7ML1830-1KM</b>   |
| Isolated switch amplifier relay output KFD2-SR2-Ex1.W  | <b>A5E03496569</b>   |
| <sup>1)</sup> Available only with power supply 1 and Approvals C, D and with process connection flange C ... G                               |                      |
| <sup>2)</sup> Available with Approval options C and D only   |                      |