

Selection and Ordering data

SITRANS LPS200, compact

Rotary paddle switch for level detection in bulk solids

- Compact design for side or top mounted applications

Process temperature

Up to +80 °C (+176 °F)

Up to +150 °C (+302 °F)

Up to +250 °C (+482 °F)

Up to +350 °C (+662 °F)¹⁾

Up to +80 °C (+176 °F) basic version aluminum²⁾ and ³⁾

Up to +80 °C (+176 °F) basic version stainless steel²⁾ and ⁴⁾

Power supply

230 V AC, 1 rev./min.

230 V AC, 1 rev./min., fail-safe

230 V AC, 5 rev./min.

230 V AC, 5 rev./min., fail-safe

115 V AC, 1 rev./min.

115 V AC, 1 rev./min., fail-safe

115 V AC, 5 rev./min.

115 V AC, 5 rev./min., fail-safe

48 V AC

24 V AC

24 V DC, 1 rev./min.

24 V DC, 1 rev./min., fail-safe

24 V DC, 5 rev./min.

24 V DC, 5 rev./min., fail-safe

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 1 rev./min.

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 5 rev./min.

Process connection

Threaded

G 1/4" [(BSPP), EN ISO 228-1]

G 1" [(BSPP), EN ISO 228-1]

G 1/2" [(BSPP), EN ISO 228-1]

1" NPT [(Taper), ANSI/ASME B1.20.1]

1/4" NPT [(Taper), ANSI/ASME B1.20.1]

1/2" NPT [(Taper), ANSI/ASME B1.20.1]

Flanged

DN32 PN 6, EN1092-1 (1.4541/321)

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)

Process pressure

Up to 0.5 bar (7.25 psi)

Up to 5 bar (72.5 psi)

Up to 10 bar (145 psi)

Process connection material

Aluminum⁵⁾ and ⁶⁾

Stainless steel 303 (1.4305)

Extension length

100 mm (3.94")

150 mm (5.91")

200 mm (7.87")

250 mm (9.84")

300 mm (11.81")

Measuring vane

Boot shaped, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

Boot shaped, 28 x 98 mm (1.10 x 3.86")

Rectangular 50 x 150 mm (1.97 x 5.91")⁷⁾

Order No.

7 ML 5 7 2 5 -

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Selection and Ordering data

SITRANS LPS200, compact

Rotary paddle switch for level detection in bulk solids

- Compact design for side or top mounted applications

Rectangular 50 x 250 mm (1.97 x 9.84")⁷⁾

Rectangular 98 x 150 mm (3.86 x 5.91")⁷⁾

Rectangular 98 x 250 mm (3.86 x 9.84")⁷⁾

Approvals

CSA/FM Dust Ignition Proof

ATEX II 1/2 D

CSA/FM General Purpose

CE

Further designs

Please add "-Z" to Order No. and specify Order code(s).

Heating of enclosure⁸⁾ and ⁹⁾

Signal bulb inserted in M20 cable gland⁸⁾

SITRANS LPS200 designed for food applications with shaft seal conforming to FDA standards

Additional instruction manual

Multi-language

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Spare parts

Motor gear /PLC, multi-voltage

Replacement vane, boot shape, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

Rigid extension kit

(Includes spring coupling, rigid tube extension and required pins)

Extension: 500 mm, 400 mm, 300 mm (19.7", 15.8", 11.8")

Extension: 1000 mm, 900 mm, 800 mm, 700 mm, 600 mm (39.4", 35.4", 31.5", 27.6", 23.6")

Extension: 1500 mm, 1400 mm, 1300 mm, 1200 mm, 1100 mm (59.1", 55.1", 51.2", 47.2", 43.3")

¹⁾ Available with approval option C and D only, up to max. 0.8 bar

²⁾ Basic version is cost effective and offers fast delivery.

³⁾ Available only with power supply option A and with process connection C, or power supply E with process connection E, and then process pressure 1, process connection material 1, extension length 2, measuring vane A and approvals C or D

⁴⁾ Available only with power supply option Q, process connection C with approval B or process connection E with approval A, process pressure 1, process connection material 2, extension length 2 and measuring vane A

⁵⁾ Available with process connections A to F only

⁶⁾ Available with process pressure option 1 only

⁷⁾ Available with process connections G, H, J, K, L, M only

⁸⁾ Available with approval options C, D only

⁹⁾ Available with power supply options A to H, J to N, P only

Order No.

7 ML 5 7 2 5 -

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G

A

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A35

A20

K01

Order No.

7ML1998-5FS62

7ML1830-1KG

7ML1830-1KH

7ML1830-1KJ

7ML5711-0AA

7ML5711-1AA

7ML5711-2AA

Order code

Selection and Ordering data

Order No.

SITRANS LPS200, Extended

7 M L 5 7 2 6 -

Rotary paddle switch for level detection in bulk solids
Extended design with protection tube for added shaft protection

Process temperature

Up to +80 °C (+176 °F)

Up to +150 °C (+302 °F)

Up to +250 °C (+482 °F)

Up to +350 °C (+662 °F)¹⁾

Up to +80 °C (+176 °F) basic version²⁾ and ³⁾

Power supply

230 V AC, 1 rev/min.

230 V AC, 1 rev/min., fail-safe

230 V AC, 5 rev/min.

230 V AC, 5 rev/min., fail-safe

115 V AC, 1 rev/min.

115 V AC, 1 rev/min., fail-safe

115 V AC, 5 rev/min.

115 V AC, 5 rev/min., fail-safe

48 V AC

24 V AC

24 V DC, 1 rev/min.

24 V DC, 1 rev/min., fail-safe

24 V DC, 5 rev/min.

24 V DC, 5 rev/min., fail-safe

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 1 rev/min.

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 5 rev/min.

Process connection

Threaded

G 1¼" [(BSPP), EN ISO 228-1]

G 1½" [(BSPP), EN ISO 228-1]

1¼" NPT [(Taper), ANSI/ASME B1.20.1]

1½" NPT [(Taper), ANSI/ASME B1.20.1]

Flanged

DN32 PN 6, EN1092-1 (1.4541/321)

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)

Process pressure

Up to 0.5 bar (7.25 psi)

Up to 5 bar (72.5 psi)

Up to 10 bar (145 psi)

Process connection material

Aluminum⁴⁾ and ⁵⁾

Stainless steel 303 (1.4305)

Extension length

150 mm (5.91")

200 mm (7.87")

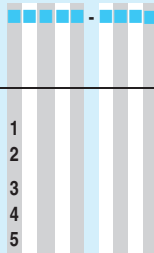
250 mm (9.84")

300 mm (11.81")

Extension material (protection tube)

Aluminum⁴⁾

Stainless steel 303 (1.4305)



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Selection and Ordering data

Order No.

SITRANS LPS200, Extended

7 M L 5 7 2 6 -

Rotary paddle switch for level detection in bulk solids
Extended design with protection tube for added shaft protection

Measuring vane

Boot shaped, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

Rectangular 50 x 150 mm (1.97 x 5.91")⁶⁾

Rectangular 50 x 250 mm (1.97 x 9.84")⁶⁾

Rectangular 98 x 150 mm (3.86 x 5.91")⁶⁾

Rectangular 98 x 250 mm (3.86 x 9.84")⁶⁾

Approvals

CSA/FM Dust Ignition Proof

ATEX II 1/2 D

CSA/FM General Purpose

CE

Further designs

Please add **"-Z"** to Order No. and specify Order code(s).

Heating of enclosure⁷⁾ and ⁸⁾

Signal bulb inserted in M20 cable gland⁷⁾

SITRANS LPS200 designed for food applications with shaft seal conforming to FDA standards

Additional instruction manual

Multi-language

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Spare parts

Motor gear /PLC, multi-voltage

Replacement vane, boot shape, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

¹⁾ Available with approval option 3 and 4 only, up to max. 0.8 bar

²⁾ Available only with power supply option Q (process connection B with approval 2 or process connection C with approval 1), process pressure 1, process connection material 2, extension length 2, protection tube B and measuring vane A

³⁾ Basic version is cost effective and offers fast delivery.

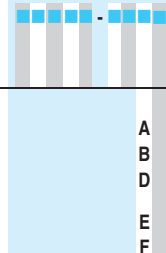
⁴⁾ Available with process connections A to F only

⁵⁾ Available with process pressure option 1 only

⁶⁾ Available with process connections E, F, G, H, J, K only

⁷⁾ Available with approval options 3, 4 only

⁸⁾ Available with power supply options A to H, J to N, P only



A
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Order code

A35
A20
K01

Order No.
7ML1998-5FS62

7ML1830-1KG
7ML1830-1KH
7ML1830-1KJ

Selection and Ordering data

SITRANS LPS200, cable extension

Rotary paddle switch for level detection in bulk solids

Cable extension for increased length in top-mounted applications

Process temperature

Up to +80 °C (+176 °F)

Up to +150 °C (+302 °F)

Up to +250 °C (+482 °F)

Up to +350 °C (+662 °F)¹⁾

Up to +80 °C (+176 °F) basic version²⁾ and ³⁾

Power supply

230 V AC, 1 rev/min.

230 V AC, 1 rev/min., fail-safe

230 V AC, 5 rev/min.

230 V AC, 5 rev/min., fail-safe

115 V AC, 1 rev/min.

115 V AC, 1 rev/min., fail-safe

115 V AC, 5 rev/min.

115 V AC, 5 rev/min., fail-safe

48 V AC

24 V AC

24 V DC, 1 rev/min.

24 V DC, 1 rev/min., fail-safe

24 V DC, 5 rev/min.

24 V DC, 5 rev/min., fail-safe

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 1 rev/min.

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 5 rev/min.

Process connection

Threaded

G 1¼" [(BSPP), EN ISO 228-1]

G 1½" [(BSPP), EN ISO 228-1]

1¼" NPT [(Taper), ANSI/ASME B1.20.1]

1½" NPT [(Taper), ANSI/ASME B1.20.1]

Flanged

DN32 PN 6, EN1092-1 (1.4541/321)

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)

Process pressure

Up to 0.5 bar (7.25 psi)

Up to 5 bar (72.5 psi)

Up to 10 bar (145 psi)

Process connection material

Aluminum⁴⁾ and ⁵⁾

Stainless steel 303 (1.4305)

Cable extension length

Standard cable length, 2000 mm (78.74")

Add order code Y01 and plain text: "Insertion length ... mm"

500 to 1000 mm (19.69 to 39.37")

Cable length 1001 to 2000 mm (39.41 to 78.74")

Cable length 2001 to 3000 mm (78.78 to 118.11")

Cable length 3001 to 4000 mm (118.15 to 157.48")

Cable length 4001 to 5000 mm (157.52 to 196.85")

Cable length 5001 to 6000 mm (196.89 to 236.22")

Cable length 6001 to 7000 mm (236.26 to 275.59")

Cable length 7001 to 10000 mm

(275.63 to 393.70")

Order No.

7 M L 5 7 2 7 -

0

Selection and Ordering data

SITRANS LPS200, cable extension

Rotary paddle switch for level detection in bulk solids

Cable extension for increased length in top-mounted applications

Measuring vane

Boot shaped, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

Boot shaped, 28 x 98 mm (1.10 x 3.86")

Rectangular 50 x 150 mm (1.97 x 5.91")⁶⁾

Rectangular 50 x 250 mm (1.97 x 9.84")⁶⁾

Rectangular 98 x 150 mm (3.86 x 5.91")⁶⁾

Approvals

CSA/FM Dust Ignition Proof

ATEX II 1/2 D

CSA/FM General Purpose

CE

Further designs

Please add "-Z" to Order No. and specify Order code(s).

Total insertion length:

Enter the total insertion length in plain text description, max. 10000 mm (393.70")

Reinforced cable (max. 28 kN pulling force)
Heating of enclosure⁷⁾ and ⁸⁾

Signal bulb inserted in M20 cable gland⁷⁾

Additional instruction manual

Multi-language

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Spare parts

Motor gear /PLC, multi-voltage

Replacement vane, boot shape, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

Rope extension kit, 2 m (6.56 ft)

¹⁾ Available with approval option C and D only, up to max. 0.8 bar

²⁾ Basic version is cost effective and offers fast delivery.

³⁾ Available only with power supply option Q (process connection B with approval B or process connection C with approval A), process pressure 1, process connection material 2, cable extension length 0 and measuring vane A

⁴⁾ Available with process connections A, B, C, D, E, F only

⁵⁾ Available with process pressure option 1 only

⁶⁾ Available with process connections E, F, G, H, J, K only

⁷⁾ Available with approval options C, D only

⁸⁾ Not available with power supply options Q and R

Order No.

7 M L 5 7 2 7 -

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Order code

Y01

P01
A35

A20

Order No.

7ML1998-5FS62

7ML1830-1KG
7ML1830-1KH

7ML1830-1KJ
7ML1830-1KK

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Selection and Ordering data

SITRANS LPS200, angled extension

Rotary paddle switch with robust design for level detection in bulk solids
Angled extension designed to avoid falling material in side mount applications

Process temperature

Up to +80 °C (+176 °F)
Up to +150 °C (+302 °F)
Up to +250 °C (+482 °F)

Power supply

230 V AC, 1 rev/min.
230 V AC, 1 rev/min., fail-safe
230 V AC, 5 rev/min.

230 V AC, 5 rev/min., fail-safe
115 V AC, 1 rev/min.
115 V AC, 1 rev/min., fail-safe

115 V AC, 5 rev/min.
115 V AC, 5 rev/min., fail-safe
48 V AC

24 V AC
24 V DC, 1 rev/min.
24 V DC, 1 rev/min., fail-safe

24 V DC, 5 rev/min.
24 V DC, 5 rev/min., fail-safe

Switch selectable 230 V AC/115 V AC/24 V DC
multivoltage, 1 rev/min.

Switch selectable 230 V AC/115 V AC/24 V DC
multivoltage, 5 rev/min.

Process connection

Flanged

DN100 PN 6, EN1092-1 (1.4541/321)
DN100 PN 16, EN1092-1 (1.4541/321)
4" ASME 150 lbs B16.5 (1.4541/321)

Process pressure

Up to 0.5 bar (7.25 psi)
Up to 5 bar (72.5 psi)
Up to 10 bar (145 psi)

Process connection material

Stainless steel 303 (1.4305)

Extension length

125 mm (4.92")
150 mm (5.91")
200 mm (7.87")
250 mm (9.84")
300 mm (11.81")

Measuring vane

Rectangular vane, 50 x 98 mm (1.97 x 3.86")
Rectangular vane, 50 x 150 mm (1.97 x 5.91")
Rectangular vane, 50 x 250 mm (1.97 x 9.84")
Rectangular vane 98 x 150 mm (3.86 x 5.91")
Rectangular vane 98 x 250 mm (3.86 x 9.84")
Hinged vane, 65 x 210 mm (2.56 x 8.27")

Approvals

CSA/FM Dust Ignition Proof
ATEX II 1/2 D
CSA/FM General Purpose
CE

Order No.

7 M L 5 7 2 8 -

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Selection and Ordering data

SITRANS LPS200, angled extension

Rotary paddle switch with robust design for level detection in bulk solids
Angled extension designed to avoid falling material in side mount applications

Further designs

Please add "-Z" to Order No. and specify Order code(s).

Heating of enclosure¹⁾ and ²⁾

Signal bulb inserted in M20 cable gland¹⁾

Additional instruction manual

Multi-language

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Spare parts

Motor gear /PLC, multi-voltage
Replacement vane, boot shape, 35 x 106 mm (1.38 x 4.17")
Hinged vane, 65 x 210 mm (2.56 x 8.27")

¹⁾ Available with approval options C, D only

²⁾ Available with power supply options A to H, J to N, P only

Order No.

7 M L 5 7 2 8 -

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Order code

A35
A20

Order No.

7ML1998-5FS62

7ML1830-1KG
7ML1830-1KH

7ML1830-1KJ

Selection and Ordering data

Order No.

SITRANS LPS200, rigid extension

Rotary paddle switch for level detection in bulk solids

7 ML 5 7 3 0 -

Process temperature

up to +80 °C (+176 °F)

up to +150 °C (+302 °F)

up to +250 °C (+482 °F)

up to +350 °C (+662 °F)¹⁾

Power supply

230 V AC, 1 rev./min.

230 V AC, 1 rev./min., fail-safe

230 V AC, 5 rev./min.

230 V AC, 5 rev./min., fail-safe

115 V AC, 1 rev./min.

115 V AC, 1 rev./min., fail-safe

115 V AC, 5 rev./min.

115 V AC, 5 rev./min., fail-safe

48 V AC

24 V AC

24 V DC, 1 rev./min.

24 V DC, 1 rev./min., fail-safe

24 V DC, 5 rev./min.

24 V DC, 5 rev./min., fail-safe

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 1 rev./min.

Switch selectable 230 V AC/115 V AC/24 V DC multivoltage, 5 rev./min.

Process connection

Threaded

G 1¼" [(BSPP), EN ISO 228-1]

G 1½" [(BSPP), EN ISO 228-1]

1¼" NPT [(Taper), ANSI/ASME B1.20.1]

1½" NPT [(Taper), ANSI/ASME B1.20.1]

Flanged

DN32 PN 6, EN1092-1 (1.4541/321)

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)

Process pressure

Up to 0.5 bar (7.25 psi)

Up to 5 bar (72.5 psi)

Up to 10 bar (145 psi)

Process connection material

Aluminum²⁾ and ³⁾

Stainless steel 303 (1.4305)

Extension material (protection tube)

Aluminum²⁾ and ⁴⁾

Stainless steel 303 (1.4305)

Extension length

165 to 500 mm (6.50 to 9.69")

501 to 750 mm (19.72 to 29.53")

751 to 1000 mm (29.57 to 39.37")

1001 to 1250 mm (39.41 to 42.21")

1251 to 1500 mm (49.25 to 59.06")

1501 to 1750 mm (59.09 to 68.90")

1751 to 2000 mm (68.94 to 78.74")

2001 to 2250 mm (78.78 to 88.58")

2251 to 2500 mm (88.62 to 98.43")

2501 to 2750 mm (98.46 to 108.27")

2751 to 3000 mm (108.31 to 118.11")

3001 to 3250 mm (118.15 to 127.95")

3251 to 3500 mm (127.99 to 137.80")

3501 to 3750 mm (137.83 to 147.64")

3751 to 4000 mm (147.67 to 157.48")

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Selection and Ordering data

Order No.

SITRANS LPS200, rigid extension

Rotary paddle switch for level detection in bulk solids

7 ML 5 7 3 0 -

Measuring vane

Boot shaped, 35 x 106 mm (1.34 x 4.17")

Hinged vane, 60 x 200 mm (2.36 x 7.87")

Rectangular 50 x 150 mm (1.97 x 5.91")⁵⁾

Rectangular 50 x 250 mm (1.97 x 9.84")⁵⁾

Rectangular 98 x 150 mm (3.86 x 5.91")⁵⁾

Rectangular 98 x 250 mm (3.86 x 9.84")⁵⁾

Approvals

CSA/FM Dust Ignition Proof

ATEX II 1/2 D

CSA/FM General Purpose

CE

Further designs

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")

Heating of enclosure⁶⁾ and ⁷⁾

Signal bulb inserted in M20 cable gland⁶⁾

SITRANS LPS200 designed for food applications with shaft seal conforming to FDA standards

Seal at tube end for ingress protection and shaft stability

- Max. temperature +80 °C (+176 °F)

- Max. temperature +150 °C (+302 °F)

- Max. temperature +250 °C (+482 °F)

- Max. temperature +350 °C (+662 °F)

Sliding sleeve (standard, max. pressure 0.8 bar)

Sliding sleeve (pressure tight, for over-pressure application starting from 1 bar max., dependent on pressure option ordered)

Additional instruction manual

Multi-language

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Spare parts

Motor gear /PLC, multi-voltage

Replacement vane, boot shape, 35 x 106 mm (1.38 x 4.17")

Hinged vane, 65 x 210 mm (2.56 x 8.27")

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Order code
Y01
A35
A20
K01
P06
P07
P08
P09
P12
P13
Order No.
7ML1998-5FS62
7ML1830-1KG
7ML1830-1KH
7ML1830-1KJ
1) Available with approval option 3 and 4 only, up to max. 0.8 bar
2) Available with process connections A to D only
3) Available with process pressure option 1 only
4) Available with process connection material option 1 only
5) Available with process connections E to H, J, K only
6) Available with approval options 3, 4 only
7) Available with power supply options A to H, J to N, P only