

Selection and Ordering data		Order No.	
Pointek CLS300, threaded version		7 M L 5 5 1 0 -	
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.			
Note: To select Standard or Digital CLS300 (with PROFIBUS PA), see final place holder under Electronics/output.			
Probe version (Threaded lengths include process thread.)			
Standard version, rod 350 mm (13.78")	0 X		
Extended rod, length 500 mm (19.69")	1 A		
Extended rod, length 750 mm (29.53")	1 B		
Extended rod, length 1000 mm (39.37")	1 C		
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>			
- Extended rod, factory adjusted length 250 to 999 mm (9.8 to 39.3")	1 D		
- Extended cable, length 3000 mm (118.1"), length adjustable by customer ¹⁾	2 A		
- Extended cable, length 6000 mm (236.2"), length adjustable by customer ¹⁾	2 B		
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>			
- Extended cable, factory adjusted length 1000 to 4999 mm (39.4 to 196.8") ¹⁾	2 C		
- Extended cable, factory adjusted length 5000 to 9999 mm (196.9 to 393.7") ¹⁾	2 D		
- Extended cable, factory adjusted length 10000 to 14999 mm (393.7 to 590.5") ¹⁾	2 E		
- Extended cable, factory adjusted length 15000 to 19999 mm (590.6 to 787.4") ¹⁾	2 F		
- Extended cable, factory adjusted length 20000 to 25000 mm (787.4 to 984.3") ¹⁾	2 G		
- Extended PFA cable, length 3000 mm (118.1"), length adjustable by customer ^{1) and 2)}	3 A		
- Extended PFA cable, length 6000 mm (236.2"), length adjustable by customer ^{1) and 2)}	3 B		
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>			
- Extended PFA cable, length 1000 to 4999 mm (39.4 to 196.8") ^{1) and 2)}	3 C		
- Extended PFA cable, length 5000 to 9999 mm (196.9 to 393.7") ^{1) and 2)}	3 D		
- Extended PFA cable, length 10000 to 14999 mm (393.7 to 590.5") ^{1) and 2)}	3 E		
- Extended PFA cable, length 15000 to 19999 mm (590.6 to 787.4") ^{1) and 2)}	3 F		
- Extended PFA cable, length 20000 to 25000 mm (787.4 to 984.3") ^{1) and 2)}	3 G		
Note: Verify that shield length selected in A07 and A08 is appropriate for the version selected.			
Process connection			
¾" NPT [(Taper), ANSI/ASME B1.20.1] ³⁾	A		
1" NPT [(Taper), ANSI/ASME B1.20.1] ³⁾	B		
1½" NPT [(Taper), ANSI/ASME B1.20.1]	C		
R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ³⁾	D		
R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ³⁾	E		
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	F		
1¼" NPT [(Taper), ANSI/ASME B1.20.1]	K		
G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ³⁾	L		
G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ³⁾	M		
G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	N		

Selection and Ordering data		Order No.	
Pointek CLS300, threaded version		7 M L 5 5 1 0 -	
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.			
Approvals			
General Purpose		1	
CSA/FM Class II and III Div. 1, Groups E, F, G T4 ⁴⁾		2	
CSA/FM Class I Div. 1, Groups A, B, C, D T4 ⁴⁾		3	
ATEX II 1/2 D T 100 °C ⁴⁾		4	
ATEX II 1/2 G EEx d [ia] IIC T6 to T1 ⁴⁾		5	
CSA/FM Class II and III, Div 1, Groups E, F, G T4 or T6; ⁵⁾		6	
ATEX II 1/2D 2D T100 °C ⁶⁾			
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4 or T6; ATEX II 1G 1D 1/2D EEx ia IIC T6 to T4 T100 °C ^{5) and 6)}		7	
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4; ATEX II 1/2GD EEx d [ia] IIC T6 to T1 T100 °C ⁶⁾		8	
WHG approval, German overfill protection			
Not required		0	
Required ⁴⁾		1	
Enclosure (see also option A01)			
<u>Aluminum epoxy coated</u>			
• 2 x ½" NPT via adapter, cable inlet, IP65		1	
• 2 x M20x1.5 cable inlet, IP65		2	
• 2 x ½" NPT via adapter, cable inlet, IP68		3	
• 2 x M20x1.5 cable inlet, IP68		4	
Additional options			
Standard version			A
With thermal isolator [for process temperature over +85 °C (+185 °F)]			B
Electronics/output			
Standard version without display, 12 to 250 V AC/DC, solid-state and relay output			0
Digital version with display, 24 V DC, solid-state output and PROFIBUS PA ⁷⁾			1
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		Y01	
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text		Y15	
Electrical connection/cable inlet: PROFIBUS connector M12 ^{6) and 8)}		A01	
Optional enclosure lid: Lid with glass window instead of closed lid without window ⁹⁾		A04	
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000 Inspection Certificate Type 3.1 per EN 10204		C11	
SIL/IEC61508 Declaration of Conformity [SIL 2 (overspill)] ⁴⁾		C12	
Extended Active Shield (Y02) (standard length is 125 mm, not including threaded process connection length) ¹⁰⁾		C20	
• Active Shield length (Y02): 250 mm (min. insertion length: rod, 475 mm, cable, 1000 mm)		A07	
• Active Shield length (Y02): 400 mm (min. insertion length: rod, 625 mm, cable, 1000 mm)		A08	

Selection and Ordering data		Order No.
Pointek CLS300, threaded version		7 M L 5 5 1 0 -
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.		A
Instruction manual		See page 5/40
Note: The instruction manual should be ordered as a separate line on the order.		
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		See page 5/40

- See page 5/40
- See page 5/40
- ¹⁾ Available with process connection C, F, J only
 - ²⁾ Do not select PFA cable version if process temperature exceeds +200 °C (+392 °F).
 - ³⁾ Available with Probe versions 0X, 1A to 1D only
 - ⁴⁾ Available with electronics option 0 only
 - ⁵⁾ Barrier required for Intrinsically Safe protection
 - ⁶⁾ Available with electronics option 1 only
 - ⁷⁾ An M12 PROFIBUS connector can be selected separately with wildcard option A01.
 - ⁸⁾ Available with enclosure option 2 only
 - ⁹⁾ Version with electronics option 0 has a standard closed lid without window as default; version with electronics option 1 has a standard lid with glass window as default.
 - ¹⁰⁾ See dimension drawings on page 5/44 for further explanation of Y02.

Selection and Ordering data		Order No.
Pointek CLS300, welded flange		7 ML 5 5 0 6 -
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.		
Note: To select Standard or Digital CLS300 (with PROFIBUS PA), see final place holder under Electronics/output.		
Probe version (length from flange face)		
Standard version, rod 350 mm (13.78")	0 X	
Extended rod, length 500 mm (19.69")	1 A	
Extended rod, length 750 mm (29.53")	1 B	
Extended rod, length 1000 mm (39.37")	1 C	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
- Extended rod, length 250 to 999 mm (9.8 to 39.3")	1 D	
- Extended cable, length 3000 mm (118.1"), length adjustable by customer	2 A	
- Extended cable, length 6000 mm (236.2"), length adjustable by customer	2 B	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
- Extended cable, length 1000 to 4999 mm (39.4 to 196.8")	2 C	
- Extended cable, length 5000 to 9999 mm (196.9 to 393.7")	2 D	
- Extended cable, length 10000 to 14999 mm (393.7 to 590.5")	2 E	
- Extended cable, length 15000 to 19999 mm (590.6 to 787.4")	2 F	
- Extended cable, length 20000 to 25000 mm (787.4 to 984.3")	2 G	
- Extended PFA cable, length 3000 mm (118.1"), length adjustable by customer ¹⁾	3 A	
- Extended PFA cable, length 6000 mm (236.2"), length adjustable by customer ¹⁾	3 B	
<u>Add order code Y01 and plain text: "Insertion length ... mm"</u>		
- Extended PFA cable, length 1000 to 4999 mm (39.4 to 196.8") ¹⁾	3 C	
- Extended PFA cable, length 5000 to 9999 mm (196.9 to 393.7") ¹⁾	3 D	
- Extended PFA cable, length 10000 to 14999 mm (393.7 to 590.5") ¹⁾	3 E	
- Extended PFA cable, length 15000 to 19999 mm (590.6 to 787.4") ¹⁾	3 F	
- Extended PFA cable, length 20000 to 25000 mm (787.4 to 984.3") ¹⁾	3 G	
Process connection		
<u>Welded flange, 316L stainless steel, raised face</u>		
1" ASME, 150 lb ²⁾	A 1	
1" ASME, 300 lb ²⁾	A 2	
1" ASME, 600 lb ²⁾ and 3)	A 3	
1½" ASME, 150 lb	B 1	
1½" ASME, 300 lb	B 2	
1½" ASME, 600 lb ³⁾	B 3	
2" ASME, 150 lb	C 1	
2" ASME, 300 lb	C 2	
2" ASME, 600 lb ³⁾	C 3	
3" ASME, 150 lb	D 1	
3" ASME, 300 lb ³⁾	D 2	
3" ASME, 600 lb ³⁾	D 3	
4" ASME, 150 lb ³⁾	E 1	
4" ASME, 300 lb ³⁾	E 2	
4" ASME, 600 lb ³⁾	E 3	

Selection and Ordering data		Order No.
Pointek CLS300, welded flange		7 ML 5 5 0 6 -
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.		
<u>Welded flange, 316L stainless steel, Type A flat faced</u>		
DN 25, PN 16 ²⁾	J 4	
DN 25, PN 40 ²⁾	J 6	
DN 40, PN 16	K 4	
DN 40, PN 40	K 6	
DN 50, PN 16	L 4	
DN 50, PN 40	L 6	
DN 80, PN 16	M 4	
DN 80, PN 40 ³⁾	M 6	
DN 100, PN 16 ³⁾	N 4	
DN 100, PN 40 ³⁾	N 6	
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)		
Approvals		
General Purpose		1
CSA/FM Class II and III Div. 1, Groups E, F, G T4 ⁴⁾		2
CSA/FM Class I Div. 1, Groups A, B, C, D T4 ⁴⁾		3
ATEX II 1/2 D T100 °C ⁴⁾		4
ATEX II 1/2 G EEx d [ia] IIC T6 to T1 ⁴⁾		5
CSA/FM Class II and III, Div 1, Groups E, F, G T4 or T6; ⁵⁾ ATEX II 1/2D 2D T100 °C ⁶⁾		6
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4 or T6; ATEX II 1G 1D 1/2D EEx ia IIC T6 to T4 T100 °C ⁵⁾ and 6)		7
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4; ATEX II 1/2GD EEx d [ia] IIC T6 to T1 T100 °C ⁶⁾		8
WHG approval, German overfill protection		
Not required		0
Required ⁴⁾		1
Additional options		
Standard version		A
With thermal isolator [for process temperature over +85 °C (+185 °F)]		B
Enclosure (see also option A01)		
<u>Aluminum epoxy coated</u>		
• 2 x ½" NPT via adapter, cable inlet, IP65		A
• 2 x M20x1.5 cable inlet, IP65		B
• 2 x ½" NPT via adapter, cable inlet, IP68		C
• 2 x M20x1.5 cable inlet, IP68		D
Electronics/output		
Standard version without display,		0
12 to 250 V AC/DC, solid-state and relay output		
Digital version with display, 24 V DC, solid-state output and PROFIBUS PA ⁷⁾		1
Further designs		
Please add "-Z" to Order No. and specify Order code(s).		Order code
Total insertion length: enter the total insertion length in plain text description		Y01
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text		Y15
Electrical connection/cable inlet: PROFIBUS connector M12 ⁶⁾ and 8)		A01
Optional enclosure lid: Lid with glass window instead of closed lid without window ⁹⁾		A04
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000 Inspection Certificate Type 3.1 per EN 10204		C11
SIL/IEC61508 Declaration of Conformity [SIL 2 (overspill)] ⁴⁾		C12
Extended Active Shield (Y02) (standard length is 105 mm) ¹⁰⁾		C20
• Active Shield length (Y02): 230 mm (min. insertion length: rod, 475 mm, cable, 1000 mm)		A07
• Active Shield length (Y02): 380 mm (min. insertion length: rod, 625 mm, cable, 1000 mm)		A08

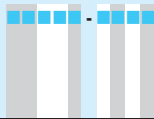
Selection and Ordering data

Order No.

Pointek CLS300, welded flange

Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.

7 ML 5 5 0 6 -



Instruction manual

Note: The instruction manual should be ordered as a separate line on the order.

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Accessories

See page 5/40

- ¹⁾ Do not select PFA cable version if process temperature exceeds +200 °C (+392 °F).
- ²⁾ Available with Probe versions 0X, 1A to 1D only
- ³⁾ Custom shipping methods required. Contact factory for more details.
- ⁴⁾ Available with electronics option 0 only
- ⁵⁾ Barrier required for Intrinsically Safe protection
- ⁶⁾ Available with electronics option 1 only
- ⁷⁾ An M12 PROFIBUS connector can be selected separately with wildcard option A01.
- ⁸⁾ Available with enclosure option B only
- ⁹⁾ Version with electronics option 0 has a standard closed lid without window as default; version with electronics option 1 has a standard lid with glass window as default.
- ¹⁰⁾ See dimension drawings on page 5/45 for further explanation of Y02.

Selection and Ordering data	Order No.						
Pointek CLS300, high temperature, threaded	7 ML 5 5 0 7 -						
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.							
Note: To select Standard or Digital CLS300 (with PROFIBUS PA), see final place holder under Electronics/output.							
Version (Threaded lengths include process thread.)							
Standard version, rod 350 mm (13.78")	0 X						
Extended rod, length 500 mm (19.69")	1 A						
Extended rod, length 750 mm (29.53")	1 B						
Extended rod, length 1000 mm (39.37")	1 C						
Extended rod, customer specified length (min. 250 mm (9.8") length, max. 999 mm (39.3") length) Add order code Y01 and plain text: "Insertion length ...mm" Note: Verify that shield length selected in A07 or A08 is appropriate for the version selected.	1 D						
Process connection							
<u>316L stainless steel</u>							
¾" NPT [(Taper), ANSI/ASME B1.20.1]	A						
1" NPT [(Taper), ANSI/ASME B1.20.1]	B						
1½" NPT [(Taper), ANSI/ASME B1.20.1]	C						
R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	D						
R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	E						
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	F						
1¼" NPT [(Taper), ANSI/ASME B1.20.1]	K						
G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	L						
G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	M						
G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	N						
Approvals							
General Purpose	1						
CSA/FM Class II and III Div. 1, Groups E, F, G T4 ¹⁾	2						
CSA/FM Class I Div. 1, Groups A, B, C, D T4 ¹⁾	3						
ATEX II 1/2 D T100 °C ¹⁾	4						
ATEX II 1/2 G EEx d [ia] IIC T6 to T1 ¹⁾	5						
CSA/FM Class II and III, Div 1, Groups E, F, G T4 or T6; ²⁾ ATEX II 1/2D 2D T100 °C ³⁾	6						
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4 or T6; ATEX II 1G 1D 1/2D EEx ia IIC T6 to T4 T100 °C ²⁾ and ³⁾	7						
CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4; ATEX II 1/2GD EEx d [ia] IIC T6 to T1 T100 °C ³⁾	8						
WHG approval, German overfill protection							
Not required	0						
Required ¹⁾	1						
Enclosure (see also option A01)							
<u>Aluminum epoxy coated</u>							
• 2 x ½" NPT via adapter, cable inlet, IP65	0						
• 2 x M20x1.5 cable inlet, IP65	1						
• 2 x ½" NPT via adapter, cable inlet, IP68	2						
• 2 x M20x1.5 cable inlet, IP68	3						
Additional options							
With thermal isolator [for process temperature over +85 °C (+185 °F)]	B						

Selection and Ordering data	Order No.						
Pointek CLS300, high temperature, threaded	7 ML 5 5 0 7 -						
Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present.							
Electronics/output							
Standard version without display, 12 to 250 V AC/DC, solid-state and relay output							0
Digital version with display, 24 V DC, solid-state output and PROFIBUS PA ⁴⁾							1
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	Y01						
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text	Y15						
Electrical connection/cable inlet: PROFIBUS connector M12 ³⁾ and ⁵⁾	A01						
Optional enclosure lid: Lid with glass window instead of closed lid without window ⁶⁾	A04						
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000	C11						
Inspection Certificate Type 3.1 per EN 10204	C12						
SIL/IEC61508 Declaration of Conformity [SIL 2 (overspill)] ¹⁾	C20						
Extended Active Shield (Y02) [standard length is 125 mm (4.92"), not including threaded process connection length] ⁷⁾							
• Active Shield length (Y02): 250 mm (9.84"), [min. insertion length: rod 475 mm (18.70"), cable 1000 mm (39.37")]	A07						
• Active Shield length (Y02): 400 mm (15.75"). [min. insertion length: rod 625 mm (24.61"), cable 1000 mm (39.37")]	A08						
Instruction manual	See page 5/40						
Note: The instruction manual should be ordered as a separate line on the order.							
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.							
Accessories	See page 5/40						

¹⁾ Available with electronics option 0 only

²⁾ Barrier required for Intrinsically Safe protection

³⁾ Available with electronics option 1 only

⁴⁾ An M12 PROFIBUS connector can be selected separately with wildcard option A01.

⁵⁾ Available with enclosure option 1 only

⁶⁾ Version with electronics option 0 has a standard closed lid without window as default; version with electronics option 1 has a standard lid with glass window as default.

⁷⁾ See dimension drawings on page 5/44 for further explanation of Y02.

Selection and Ordering data		Order No.	
Pointek CLS300, high temperature, welded flange Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present. Note: To select Standard or Digital CLS300 (with PROFIBUS PA), see final place holder under Electronics/output. Version (length from flange face) Standard version, rod 350 mm (13.78") Extended rod, length 500 mm (19.69") Extended rod, length 750 mm (29.53") Extended rod, length 1000 mm (39.37") Extended rod, customer specified length [min. 250 mm (9.8") length, max. 999 mm (39.3")length] Add order code Y01 and plain text: "Insertion length ...mm" Note: Verify that shield length selected in A07 and A08 is appropriate for the version selected. Process connection <u>Welded flange, 316L stainless steel, raised face</u> 1" ASME, 150 lb 1" ASME, 300 lb 1" ASME, 600 lb ¹⁾ 1½" ASME, 150 lb 1½" ASME, 300 lb 1½" ASME, 600 lb ¹⁾ 2" ASME, 150 lb 2" ASME, 300 lb 2" ASME, 600 lb ¹⁾ 3" ASME, 150 lb 3" ASME, 300 lb ¹⁾ 3" ASME, 600 lb ¹⁾ 4" ASME, 150 lb ¹⁾ 4" ASME, 300 lb ¹⁾ 4" ASME, 600 lb ¹⁾ <u>Welded flange, 316L stainless steel, Type A flat faced</u> DN 25, PN 16 DN 25, PN 40 DN 40, PN 16 DN 40, PN 40 DN 50, PN 16 DN 50, PN 40 DN 80, PN 16 DN 80, PN 40 ¹⁾ DN 100, PN 16 ¹⁾ DN 100, PN 40 ¹⁾ (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.) Approvals General Purpose CSA/FM Class II and III Div. 1, Groups E, F, G T4 ²⁾ CSA/FM Class I Div. 1, Groups A, B, C, D T4 ²⁾ ATEX II 1/2 D T100 °C ²⁾ ATEX II 1/2 G EEx d [ia] IIC T6 to T1 ²⁾ CSA/FM Class II and III, Div 1, Groups E, F, G T4 or T6; ³⁾ ATEX II 1/2D 2D T100 °C ⁴⁾ CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4 or T6; ATEX II 1G 1D 1/2D EEx ia IIC T6 to T4 T100 °C ³⁾ and ⁴⁾ CSA/FM Class I, II and III, Div 1, Groups A, B, C, D, E, F, G T4; ATEX II 1/2GD EEx d [ia] IIC T6 to T1 T100 °C ⁴⁾	7 M L 5 5 0 8 -		
	0 X		
	1 A		
	1 B		
	1 C		
	1 D		
	A 1		
	A 2		
	A 3		
	B 1		
B 2			
B 3			
C 1			
C 2			
C 3			
D 1			
D 2			
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E 1			
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L 6			
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N 4			
N 6			
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Selection and Ordering data		Order No.	
Pointek CLS300, high temperature, welded flange Inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present. WHG approval, German overfill protection Not required Required ²⁾ Additional options With thermal isolator [for process temperature over +85 °C (+185 °F)] Enclosure (see also option A01) <u>Aluminum epoxy coated</u> • 2 x ½" NPT via adapter, cable inlet, IP65 • 2 x M20x1.5 cable inlet, IP65 • 2 x ½" NPT via adapter, cable inlet, IP68 • 2 x M20x1.5 cable inlet, IP68 Electronics/output Standard version without display, 12 to 250 V AC/DC, solid-state and relay output Digital version with display, 24 V DC, solid-state output and PROFIBUS PA ⁵⁾ 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 Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text Electrical connection/cable inlet: PROFIBUS connector M12 ⁴⁾ and ⁶⁾ Optional enclosure lid: Lid with glass window instead of closed lid without window ⁷⁾ Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000 Inspection Certificate Type 3.1 per EN 10204 SIL/IEC61508 Declaration of Conformity [SIL 2 (overspill)] ²⁾ Extended Active Shield (Y02) [standard length is 105 mm (4.13")] ⁸⁾ • Active Shield length (Y02): 230 mm (9.06") [min. insertion length: rod 475 mm (18.70"), cable 1000 mm (39.37")] • Active Shield length (Y02): 380 mm (14.96") [min. insertion length: rod 625 mm (24.61"), cable 1000 mm (39.37")] Instruction manual Note: The instruction manual should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library. Accessories	7 M L 5 5 0 8 -		
	0		
	1		
	B		
	A		
	B		
	C		
	D		
	0		
	1		
Order code			
Y01			
Y15			
A01			
A04			
C11			
C12			
C20			
A07			
A08			
See page 5/40			
See page 5/40			

1) Custom shipping methods required. Contact factory for more details.

2) Available with electronics option 0 only

3) Barrier required for Intrinsically Safe protection

4) Available with electronics option 1 only

5) An M12 PROFIBUS connector can be selected separately with wildcard option (A01).

6) Available with enclosure option B only

7) Version with electronics option 0 has a standard closed lid without window as default; version with electronics option 1 has a standard lid with glass window as default.

8) See dimension drawings on page 5/45 for further explanation of Y02.

1) Custom shipping methods required. Contact factory for more details.
 2) Available with electronics option 0 only
 3) Barrier required for Intrinsically Safe protection
 4) Available with electronics option 1 only
 5) An M12 PROFIBUS connector can be selected separately with wildcard option (A01).
 6) Available with enclosure option B only
 7) Version with electronics option 0 has a standard closed lid without window as default; version with electronics option 1 has a standard lid with glass window as default.
 8) See dimension drawings on page 5/45 for further explanation of Y02.

Selection and Ordering data		Order No.
Instruction manual		
English		7ML1998-5CK04
German		7ML1998-5CK34
French		7ML1998-5CK14
Note: The instruction manual should be ordered as a separate line on the order.		
Quick Start manual, multi-language	C)	7ML1998-5QF81
Note: Due to ATEX regulations, one Quick Start manual is included with every product.		
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
½" NPT cable gland, nickel plated brass, fits cable diameter 6 to 12 mm (0.24 to 0.47") -40 to +100 °C (-40 to +212 °F), IP68 (General Purpose)	F)	7ML1830-1JA
½" NPT cable gland, brass, ATEX II 2GD EEx d IIC and EEx e II, fits cable diameter 6.5 to 14 mm (0.26 to 0.55"), -60 to +130 °C (-76 to +266 °F), IP68 (Explosion Proof)	F)	7ML1830-1JB
M20x1.5 cable gland, PA polyamide, ATEX II 2G EEx e II, fits cable diameter 7 to 12 mm (0.28 to 0.47"), -20 to +70 °C (-4 to +158 °F), IP68 (General Purpose)	F)	7ML1830-1JC
M20x1.5 cable gland, brass, ATEX II 2GD EEx d IIC and EEx e II, fits cable diameter 10.5 to 15.9 mm (0.41 to 0.63"), under armour cable diameter 6.1 to 11.5 mm (0.24 to 0.45"), -60 to +130 °C (-76 to +266 °F), IP68 (Explosion Proof)	F)	7ML1830-1JD
One metallic cable gland M20x1.5, -40 to +80 °C (-40 to +176 °F)	F)	7ML1930-1AP
One metallic cable gland M20x1.5, -40 to +80 °C (-40 to +176 °F) with integrated shield connection (available for PROFIBUS PA)	F)	7ML1930-1AQ
Blind threaded flanges are available. Please contact nacc.smpi@siemens.com with a completed application data sheet found on page 5/8.		
Spare parts		
Test magnet (digital version)		7ML1830-1JE
Amplifier/power supply, standard version	C)	7ML1830-1DJ
Amplifier/power supply, digital version		7ML1830-1JF
LCD display (digital version)		7ML1830-1JK

C) Subject to export regulations AL: N, ECCN: EAR99

F) Subject to export regulations AL: 91999, ECCN: N