## **SIEMENS**

## **Data sheet**

6AG1321-1FF01-2AA0



SIPLUS S7-300 SM 321 20-pole based on 6ES7321-1FF01-0AA0 with conformal coating, -40...+70  $^{\circ}$ C, digital input isolated 8 DI, 120 V/230 V AC

Figure similar

Supply voltage	
Load voltage L1	
Rated value (AC)	230 V; 120/230 V AC
Input current	
from backplane bus 5 V DC, max.	29 mA
Power loss	
Power loss, typ.	4.9 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 60 °C, max.	8; up to 70 °C
vertical installation	
— up to 40 °C, max.	8
Input voltage	
<ul> <li>Type of input voltage</li> </ul>	AC
<ul><li>Rated value (AC)</li></ul>	230 V; 120/230 V AC (47 63 Hz)
● for signal "0"	0 to 40V
• for signal "1"	79 to 264V
Input current	
• for signal "1", typ.	6.5 mA; (120 V); 11 mA (230 V)
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
— at "1" to "0", max.	25 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	2 mA
Interrupts/diagnostics/status information	
Alarms	No

Degroestes function  **No** **Plangroestes adarm* **No** **No** **Indication steparation **Plangroestes indication LED** **Oroup error SE (red) **Status indicator digital inputs **Determinal separation digital inputs **Post-Normal separation digital separation digital separation digital digital separation digital digital separation digital separation digital digital separation digital sepa		
Olagonostic alamm     O Hardware interrupt     O Corpu error SF (red)     O Salatus indication (EED     O Corpu error SF (red)     O Salatus indication digital inputs     Obtend a separation     Obtend a separation     Obtend a separation     Obtend a separation of Color of Separation     Obtended Separation     Obtended Separation     Obtended Separation     Obtended Separation     O V DC     O V DC     Standards, approvals, certificates     CE mark     O Separation     O V DC     Standards, approvals, certificates     OCE mark     O Separation     O V Separation of V Separation     O V Sepa	Diagnostics function	No
Arrivation interrupt  Arrivation interrupt  According error SF (red)  Collabor indication (LED)  Collabor indication (Lipidal injud (green)  Collabor indication digital injudication (lipidal injudication)  Collabor indication digital injudication  Collabor indication digital injudication digital inju		
Diagnostics indication LED  • Group error SF (red) • Status indicator digital input (green)  Potential separation  Potential separat	<u> </u>	
Croup error SF (red) Status indicator digital injut (green) Potential separation Potential separation digital injuts  Extended Separation	·	No .
• Status indicator digital input (green)  Potential separation digital inputs  • between the channels in groups of 2  • between the channels and backplane bus  • between the channels and backplane bus  * botween the channels and backplane bus  * Ves  * Us. approval  * CE mark  * Us. approval  * Ves  * CAC (formetry Cost-R)  * Ves  * Railway application  * EN 50155  * Yes: Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, T1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category 1, Category 2, Category 2, Sections 4, 5 and 12, no further agreements apply; T1, Category		Na
Potential separation digital inputs	. ,	
Potevnial separation digital inputs  • between the channels in groups of 2  • between the channels in groups of 2  * between the channels in groups of 3  • between the channels in groups of 4  * Yes; Optocoupler    Standards, approvals, certificates    CE mark		Tes
between the channels, in groups of 2     between the channels, in groups of 2     between the channels and backplane bus Yes; Optocoupler    Solation		
between the channels, in groups of between the channels and backglane bus		N-
• between the channels and backplane bus Isolation Isolation tested with  4 000 V DC  Standards, approvals, certificates  CE mark  UL approval  RCM (formerly C-TICK)  Fes  KC approval  Fex  Formerly Gost-RN  Railway application  • EN 50155  Ambient conditions  Ambient conditions  Ambient temperature during operation  • min.		
Isolation Isolation tested with  4 000 V DC  Standards, approvals, certificates  CE mark  UL approval  Fes. File E239877  Yes. File E239877  Yes  RCM (formerly C-TICK)  Yes  RCA opproval  EAC (formerly Gost-R)  Railway application  • EN 50155  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Antitude during operation relating to sea level  • installation altitude above sea level, max.  • Antitude during operation relating to sea level  • installation altitude above sea level, max.  • Antitude altitude  • Installation altitude above sea level with IEC condess-2-38. max.  • Antitude during operation relating to sea level  • installation altitude above sea level, max.  • Antitude during operation relating to sea level  • installation altitude above sea level, max.  • Antitude during operation relating to sea level  • installation altitude above sea level, max.  • Antitude flavore and the pressure-altitude  • Installation altitude above sea level, max.  • Antitude flavore and the pressure-altitude  • Installation altitude above sea level, max.  • Antitude flavore and the pressure-altitude  • Installation altitude above sea level, max.  • Antitude flavore and the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude  • Installation altitude above sea level of the pressure-altitude  • Installation altitude above sea level of the pressure-altitude  • Installation alti		
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CE mark  UL approval  Nes; File E239877  Yes; File E239877  Yes  EAC (formerly C-TICK)  Yes  EAC (formerly Gost-R)  **EN 50155  **Cess Ass. EN 50155:2007 (see SIOS entry 109755985)  Ambient conditions  Ambient temperature during operation  **min.  **max.  **max.  Ambient temperature during storage/transportation  **min.  **max.  **An "C"; = Tmin  70 "C; = Tmin; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 "C (T1) or 60 "C @ UL/UL/haz/ATEX/FM use applies  **An "Dient temperature during storage/transportation  **min.  **max.  **An "C"; = Tmin  70 "C; = Tmin; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 "C (T1) or 60 "C @ UL/UL/haz/ATEX/FM use applies  **An "Dient temperature during storage/transportation  **min.  **max.  **An bient temperature during storage/transportation  **min.  **max.  **An bient air temperature-barometric pressure-allitude  **initidade during operation relating to sea level  **Initialisation altitude above sea level, max.  **An bient air temperature-barometric pressure-allitude  **Initialisation altitude above sea level, max.  **An bient temperature during storage/transportation  **Tmin		4 000 V DC
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RCM (formerly C-TICK)  KC approval  CEAC (formerly Cost-R)  Railway application  EN S0155  Ves  Railway application  Tyes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007 (see SIOS entry 109755995)  Ambient conditions  Ambient temperature during operation  min.  max.  Anbient temperature during storage/transportation  min.  A0 °C; = Timax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @  UL/ULhaz/ATEX/FM use applies  Anbient temperature during storage/transportation  min.  A0 °C  70 °C  Altitude during operation relating to sea level  Installation altitude above sea level, max.  Ambient air temperature-barometric pressure-altitude  Eletative humidity  With condensation, tested in accordance with IEC  60068-2-38, max.  Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechani		
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Railway application  Person Sol 155  Robinst conditions  Ambient conditions  Ambient temperature during operation  min.  max.  Ambient temperature during storage/transportation  min.  min.  max.  Anticular during operation relating to sea level  Installation altitude above sea level, max.  Anticular during operation relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Installation altitude above sea level, max.  Anticular depression relating to sea level  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000 m)  Timin Trans at 1 140 hPa 795 hPa (-1 000 m +2 000		
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Class A/B, EN 50155:2007 (see SIOS entry 109755985)  Ambient temperature during operation  • min.  • max.  A0 °C; = Tmin.  70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C ©  UI/ULhaz/ATEX/FM use applies  Ambient temperature during storage/transportation  • min.  • max.  A0 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.  — to biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60068-2-52 (severity degree 3);   Yes; Class 6S3 incl. sand, dust; *  Yes; Class 6		Vec: Sections 4. 5 and 12: no further agreements apply T1. Cotagon 4.
Ambient conditions  Ambient emperature during operation  • min.  • max.  **max.**  **m	• EN 50155	
Ambient temperature during operation  • min. • max.  - 40 °C; = Tmin - 70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @ UL/ULnaz/ATEX/FM use applies  Ambient temperature during storage/transportation  • min. • max.  - 40 °C - 70 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude  Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3 (according to EN 60721-3-3 (according to EN 60721-3-3 (according to EN 600721-3-3 (accor	Ambient conditions	
<ul> <li>• min.</li> <li>• max.</li> <li>• max.</li> <li>70 °C; = Tmin</li> <li>70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies</li> </ul> Ambient temperature during storage/transportation <ul> <li>• min.</li> <li>• max.</li> <li>40 °C</li> <li>70 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>• Installation altitude above sea level, max.</li> <li>• Ambient air temperature-barometric pressurealitude</li> <li>• Mith condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>• With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>• To biologically active substances according to EN 60721-3-3</li> <li>• To chemically active substances according to EN 60721-3-3</li> <li>• To chemically active substances according to EN 60721-3-6</li> <li>• To chemically active substances according to EN 60721-3-6</li> <li>• To mechanically active substances according to EN 60721-3-6</li> <li>• To mechanically active substances according to EN 60721-3-6</li> <li>• Usage in industrial process technology</li> <li>• Against chemically active substances acc. to EN 60654-4</li> <li>• Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul> Yes; Class 3 (excluding trichlorethylene) Yes; Class 3 3C4 (Perl of 5 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6S3 incl. sand,		
To "C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 "C (T1) or 60 "C @ UL/UL/BZ/ATEX/FM use applies  Ambient temperature during storage/transportation  min.		-40 °C: = Tmin
Ambient temperature during storage/transportation  ● min.		
<ul> <li>• min.</li> <li>• max.</li> <li>Altitude during operation relating to sea level</li> <li>● Installation altitude above sea level, max.</li> <li>• Ambient air temperature-barometric pressurealtitude</li> <li>Relative humidity</li> <li>• With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Resistance</li> <li>Use in stationary industrial systems</li> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</li> </ul>		rated temperature range -25 +55 °C (T1) or 60 °C @
<ul> <li>• max.</li> <li>Altitude during operation relating to sea level</li> <li>• Installation altitude above sea level, max.</li> <li>• Ambient air temperature-barometric pressureallitude</li> <li>• Relative humidity</li> <li>• With condensation, tested in accordance with IEC 60088-2-38, max.</li> <li>Resistance</li> <li>Use in stationary industrial systems         <ul> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to the micro EN 60721-3-6</li> <li>— to the micro EN 60721-3-6</li></ul></li></ul>	Ambient temperature during storage/transportation	
Altitude during operation relating to sea level  Installation altitude above sea level, max.  Ambient air temperature-barometric pressurealtitude  Relative humidity  With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to emically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to to the mechanically active substances according to EN 60721-3-3 — to the mechanically active substances according to EN 60721-3-3 — to the mechanically	• min.	-40 °C
<ul> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressure-altitude</li> <li>Relative humidity</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>To biologically active substances according to EN 60721-3-3</li> <li>— to chemically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to emchanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-3 (according to EN 60721-3-3 (according to EN 60721-3-3 (according to EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</li> </ul>	• max.	70 °C
<ul> <li>Ambient air temperature-barometric pressurealitude</li> <li>Relative humidity</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Resistance</li> <li>Use in stationary industrial systems         <ul> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to emclanically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-3 (according to E</li></ul></li></ul>	Altitude during operation relating to sea level	
Relative humidity  ● With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m
Relative humidity  With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  100 %; RH incl. condensation/frost (no commissioning under condensation conditions)  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3S4 incl. sand, dust, *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Cl	·	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3 class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-5		
Resistance  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	,	100 0/ · DH incl. condensation/front (no commissioning under
Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	•	
Test biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068		,
Test biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B3 incl. salt spray acc. to EN 60068		
- to chemically active substances according to EN 60721-3-3  - to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  - to biologically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60654-4  - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B3 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	— to biologically active substances according to	
- to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  - to biologically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  - Against chemically active substances acc. to EN 60654-4  - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *	— to chemically active substances according to	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 3 (excluding trichlorethylene)  Yes; Class 3 (excluding trichlorethylene)	— to mechanically active substances according to	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> <li>Usage in industrial process technology</li> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> <li>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</li> <li>Yes; Class 6C3 (RH &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</li> <li>Yes; Class 6S3 incl. sand, dust; *</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</li> </ul>		
EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 3 (excluding trichlorethylene)  Yes; Class 3 (excluding trichlorethylene)  Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	·	Yes: Class 6B2 mold and fundal shores (excluding fauna): Class 6B3 on
EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 3 (excluding trichlorethylene)  Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> <li>Usage in industrial process technology</li> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> <li>Yes; Class 6S3 incl. sand, dust; *</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</li> </ul>		
Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04  Yes; Class 3 (excluding trichlorethylene)  Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</li> </ul>		
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Against chemically active substances acc. to	Yes; Class 3 (excluding trichlorethylene)
Remark	<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-</li> </ul>	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
	Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and</li> <li>* The supplied plug covers must remain in place over the unused interfaces during operation!</li> </ul>		

ANSI/ISA-71.04	
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	240 g

last modified: 1/16/2021 🖸