



Figure similar

SIPLUS ET 200SP BA 2xLC-LD based on 6ES7193-6AG50-0AA0 with conformal coating, -40...+60 °C, . BusAdapter 2x LC-LD port, for single-mode optical fiber, up to max. 20 km

General information	
Product type designation	BA 2x LC-LD
based on	<a href="#">6ES7193-6AG50-0AA0</a>
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch) 2x LC-LD single-mode fiber-optic cable
Supports protocol for PROFINET IO	
<ul style="list-style-type: none"> <li>Number of LC ports</li> </ul>	2; wavelength of 1 270 ... 1 380 nm, corresponds to 100BASE-LX
Cable length	
<ul style="list-style-type: none"> <li>single-mode fiber-optic cable 9/125 µm</li> </ul>	20 km; 10 km for topology or IRT configuration; min. transmit power -15 dB, min. receiver sensitivity -28 dB
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul>	-40 °C; = Tmin (incl. condensation/frost) 60 °C; = Tmax -40 °C; = Tmin 50 °C; = Tmax
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressure-altitude</li> </ul>	5 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
<ul style="list-style-type: none"> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
<ul style="list-style-type: none"> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul style="list-style-type: none"> <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>Against mechanical environmental conditions acc. to EN 60721-3-3</li> </ul>	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 3S4 incl. sand, dust, * Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0//6AG1193-6AB00-0AA0)
Use on ships/at sea	
<ul style="list-style-type: none"> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *

— to mechanically active substances according to EN 60721-3-6

Yes; Class 6S3 incl. sand, dust; \*

— Against mechanical environmental conditions acc. to EN 60721-3-6

Yes; class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0/6AG1193-6AB00-0AA0)

#### Usage in industrial process technology

— Against chemically active substances acc. to EN 60654-4

Yes; Class 3 (excluding trichlorethylene)

— 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)

#### Remark

— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04

\* The supplied plug covers must remain in place over the unused interfaces during operation!

#### Conformal coating

- Coatings for printed circuit board assemblies acc. to EN 61086
- Protection against fouling acc. to EN 60664-3
- Military testing according to MIL-I-46058C, Amendment 7
- Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Class 2 for high reliability

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

#### Dimensions

Width	20 mm
Height	69.5 mm
Depth	59 mm

#### Weights

Weight, approx.	40 g
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#### Classifications

	Version	Classification
eClass	14	27-24-26-92
eClass	12	27-24-26-92
eClass	9.1	27-24-26-92
eClass	9	27-24-26-92
eClass	8	27-24-26-92
eClass	7.1	27-24-26-92
eClass	6	27-24-26-92
ETIM	9	EC002584
ETIM	8	EC002584
ETIM	7	EC002584

#### Approvals / Certificates

General Product Approval

Marine / Shipping

[Miscellaneous](#)

[Manufacturer Declaration](#)



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