

### Product type designation

### SFP993-1

SCALANCE X ACCESSORIES; SFP993-1; 1 X 10000MBIT/S LC-PORT, OPTICAL; MULTIMODE GLASS UP TO MAX. 300M



### Interfaces

|   |  |
|---|--|
| Number of electrical/optical connections / for network components or terminal equipment / maximum   | 1                                      |
| Number of optical interfaces / for network components or terminal equipment / maximum   | 1                                      |
| Number of 10 Gbit/s LC ports (SX)   | 1                                      |
| Design of the optical interface / for network components or terminal equipment  | LC                                     |
| Wavelength / of the optical interface   | 850 nm; Multi-mode                     |
| Connectable optical power relative to 1 mW  |  |
| <ul style="list-style-type: none"> <li>• of the transmitter output / minimum</li> <li>• of the transmitter output / maximum</li> <li>• of the receiver input / maximum</li> </ul> | <p>-5 dB</p> <p>-1 dB</p> <p>-1 dB</p> |
| Optical sensitivity relating to 1 mW / of the receiver input / minimum  | -11.1 dB                               |
| Damping ratio / of the FOC transmission link / minimum necessary  | 0 dB                                   |
| Range / at the optical interface / depending on the optical fiber used  | 0 ... 0.3 km                           |

## Permitted ambient conditions

|  |                |
|--|----------------|
| Ambient temperature  |                |
| • during operation   | 0 ... 60 °C    |
| • during storage   | -40 ... +85 °C |
| • during transport   | -40 ... +85 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum | 95 %           |
| Protection class IP  | IP20           |

## Design, dimensions and weight

|               |            |
|---------------|------------|
| Design        | SFP Module |
| Width         | 13.7 mm    |
| Height        | 11.9 mm    |
| Depth         | 56.5 mm    |
| Net weight    | 0.01 kg    |
| Mounting type | latched    |

## Standards, specifications, approvals

|                                |                                      |
|--------------------------------|--------------------------------------|
| Standard                       |                                      |
| • for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-8    |
| • for emitted interference     | EN 61000-6-4 (Class A)               |
| • for interference immunity    | EN 61000-6-2                         |
| Certificate of suitability     | EN 61000-6-2:2005, EN 61000-6-4:2007 |
| • CE marking                   | Yes                                  |
| • C-Tick                       | Yes                                  |
| • KC approval                  | No                                   |
| • E1 approval                  | No                                   |

## Further Information / Internet Links

|   |   |
|---|---|
| Internet-Link                                     |   |
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

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