

Product-type designation

SIPLUS SCALANCE X104-2



SIPLUS NET SCALANCE X104-2 -25 ... +60 DEGREE C  
WITH CONFORMAL COATING BASED ON 6GK5104-  
2BB00-2AA3

Transmission rate

|                   |            |
|-------------------|------------|
| Transfer rate / 1 | 10 Mbit/s  |
| Transfer rate / 2 | 100 Mbit/s |

Interfaces

|                                                                                                   |                                     |
|---------------------------------------------------------------------------------------------------|-------------------------------------|
| Number of electrical/optical connections / for network components or terminal equipment / maximum | 6                                   |
| Number of electrical connections                                                                  |                                     |
| • for network components and terminal equipment                                                   | 4                                   |
| • for signaling contact                                                                           | 1                                   |
| • for power supply                                                                                | 1                                   |
| • for redundant power supply                                                                      | 1                                   |
| Design of electrical connection                                                                   |                                     |
| • for network components and terminal equipment                                                   | RJ45 port                           |
| • for signaling contact                                                                           | 2-pole terminal block               |
| • for power supply                                                                                | 4-pole terminal block               |
| Number of optical interfaces / for optical waveguide                                              |                                     |
| • at 100 Mbit/s                                                                                   | 2                                   |
| Design of optical interface / for optical waveguide                                               |                                     |
| • at 100 Mbit/s                                                                                   | BFOC sockets (multimode up to 3 km) |
| Connectable optical power relative to 1 mW                                                        |                                     |

|                                                                          |                                                                                                                                                                                         |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • of the transmitter output                                              | -19 ... -14 dB                                                                                                                                                                          |
| • of the receiver input / maximum                                        | -14 dB                                                                                                                                                                                  |
| Optical sensitivity relative to 1 mW / of the receiver input / minimum   | -32 dB                                                                                                                                                                                  |
| Attenuation / of fiber-optic cable transmission link / minimum necessary | 0 dB                                                                                                                                                                                    |
| Range / at the optical interface / depending on the optical fiber used   | 0 ... 5 km                                                                                                                                                                              |
| <b>Signal-Inputs/outputs</b>                                             |                                                                                                                                                                                         |
| Operating voltage / of signaling contacts / at DC / rated value          | 24 V                                                                                                                                                                                    |
| Operating current / of signaling contacts / at DC / maximum              | 0.1 A                                                                                                                                                                                   |
| <b>Supply voltage, current consumption, power loss</b>                   |                                                                                                                                                                                         |
| Type of / supply voltage                                                 | DC                                                                                                                                                                                      |
| Supply voltage / external                                                | 24 V                                                                                                                                                                                    |
| • minimum                                                                | 18 V                                                                                                                                                                                    |
| • maximum                                                                | 32 V                                                                                                                                                                                    |
| Product component / fusing at power supply input                         | Yes                                                                                                                                                                                     |
| Type of fusing / at input for supply voltage                             | 0,6 A / 60 V                                                                                                                                                                            |
| Consumed current / maximum                                               | 0.175 A                                                                                                                                                                                 |
| Active power loss / at 24 V / for DC                                     | 3.8 W                                                                                                                                                                                   |
| <b>Permitted ambient conditions</b>                                      |                                                                                                                                                                                         |
| Ambient temperature                                                      |                                                                                                                                                                                         |
| • during operating                                                       | -25 ... +60 °C                                                                                                                                                                          |
| • during storage                                                         | -40 ... +80 °C                                                                                                                                                                          |
| • during transport                                                       | -40 ... +80 °C                                                                                                                                                                          |
| Ambient condition                                                        |                                                                                                                                                                                         |
| • relating to ambient temperature - air pressure - installation altitude | -25 ... +60°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // -25 ... +50°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // -25 ... +40°C at 658 hPa ... 540 hPa (+3500 m ... +5000 m) |
| Relative humidity                                                        |                                                                                                                                                                                         |
| • at 25 °C / without condensation / during operating / maximum           | 100 %                                                                                                                                                                                   |
| • with condensation / maximum                                            | 100 %                                                                                                                                                                                   |
| Protection class IP                                                      | IP30                                                                                                                                                                                    |
| <b>Design, dimensions and weight</b>                                     |                                                                                                                                                                                         |
| Design                                                                   | compact                                                                                                                                                                                 |
| Width                                                                    | 60 mm                                                                                                                                                                                   |
| Height                                                                   | 125 mm                                                                                                                                                                                  |
| Depth                                                                    | 124 mm                                                                                                                                                                                  |
| Net weight                                                               | 0.78 kg                                                                                                                                                                                 |
| Mounting type                                                            |                                                                                                                                                                                         |
| • 35 mm DIN rail mounting                                                | Yes                                                                                                                                                                                     |
| • wall mounting                                                          | Yes                                                                                                                                                                                     |

|                                                     |                                                                                                               |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| • S7-300 rail mounting                              | Yes                                                                                                           |
| <b>Standards, specifications, approvals</b>         |                                                                                                               |
| Standard                                            |                                                                                                               |
| • for hazardous zone                                | EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA IIT., KEMA 07 ATEX 0145 X                                    |
| • for emitted interference                          | EN 61000-6-4 (Class A)                                                                                        |
| • for interference immunity                         | EN 61000-6-2                                                                                                  |
| Verification of suitability                         | EN 61000-6-2, EN 61000-6-4                                                                                    |
| • CE mark                                           | Yes                                                                                                           |
| • KC approval                                       | Yes                                                                                                           |
| • Railway application in accordance with EN 50155   | No                                                                                                            |
| • Railway application in accordance with EN 50124-1 | No                                                                                                            |
| Marine classification association                   |                                                                                                               |
| • American Bureau of Shipping Europe Ltd. (ABS)     | No                                                                                                            |
| • Bureau Veritas (BV)                               | No                                                                                                            |
| • Det Norske Veritas (DNV)                          | No                                                                                                            |
| • Germanische Lloyd (GL)                            | No                                                                                                            |
| • Lloyds Register of Shipping (LRS)                 | No                                                                                                            |
| • Nippon Kaiji Kyokai (NK)                          | No                                                                                                            |
| • Polski Rejestr Statkow (PRS)                      | No                                                                                                            |
| <b>Further Information / Internet Links</b>         |                                                                                                               |
| Internet-Link                                       |                                                                                                               |
| • to website: Industry Mall                         | <a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a> |
| • to website: Industrial communication              | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                           |
| • to website: Information and Download Center       | <a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</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="http://support.automation.siemens.com">http://support.automation.siemens.com</a>                     |
| <b>letzte Änderung:</b>                             | Aug 6, 2014                                                                                                   |