Status	Meaning
Lit yellow (constant)	Module in startup. (Signaling contact open). If no IP address exists, the module remains in this status.
Flashes yellow and red alternately	Module resets itself to factory settings. (Signaling contact open).

Power LEDs (L1, L2)

The status of the power supply is indicated by two LEDs:

Status	Meaning
Lit green	Power supply L1 or L2 is connected.
Not lit	Power supply L1 or L2 not connected or < 14 V (L+)
Lit red	Power supply L1 or L2 failed during operation or < 14 V (L+)

Port status LEDs (P1 and TX, P2 and TX)

The status of the interfaces is indicated by 2 LEDs for each of the two ports:

Status	Meaning
LED P1 / P2	
Lit green	TP link exists
Flashes / lit yellow	Receiving data at RX
off	No TP link or no data being received
LED TX	
Flashes / lit yellow	Data being sent
off	No data being sent

2.1.9 Technical specifications

Connectors	
Attachment of end devices or network components over twisted pair	2xRJ–45 jacks with MDI-X pinning 10/100 Mbps (half/full duplex)
Connector for power supply	1x4-pin plug-in terminal block
Connector for signaling contact	1x2-pin plug-in terminal block
Electrical data	
Power supply	24 V DC power supply (18 through 32 V DC) • Implemented redundantly • Safety extra-low voltage (SELV)
Power loss at 24 V DC	3.84 W

Current consumption at rated voltage	250 mA maximum
Permitted cable lengths	
Connection over Industrial Ethernet FC TP cables:	
0 - 100 m	Industrial Ethernet FC TP standard cable with IE FC RJ-45 plug 180 or Over Industrial Ethernet FC outlet RJ-45 with 0 - 90 m Industrial Ethernet FC TP standard cable + 10 m TP cord
0 - 85 m	Industrial Ethernet FC TP marine/trailing cable with IE FC RJ-45 plug 180 or 0 - 75 m Industrial Ethernet FC TP marine/trailing cable + 10 m TP cord
Software configuration limits for VPN	
Number of IPsec tunnels	
SCALANCE S612 SCALANCE S613	64 maximum 128 maximum
Software "firewall" configuration limits	
Number of firewall rules	
SCALANCE S602 SCALANCE S612 SCALANCE S613	256 maximum 256 maximum 256 maximum
Permitted environmental conditions / EMC	
Operating temperature SCALANCE S602	0 °C through +60 °C
Operating temperature SCALANCE S612	0 °C through +60 °C
Operating temperature SCALANCE S613	-20 °C through +70 °C
Storage/transport temperature	-40 °C through +80 °C
Relative humidity in operation	95% (no condensation)
Operating altitude	Up to 2000 m above sea level at max. 56 °C ambient temperature Up to 3000 m above sea level at max. 50 °C ambient temperature
RF interference level	EN 50081-2 Class A
Immunity	EN 50082-2
Degree of protection	IP 30
Certification	
c-UL-us	UL 60950
	CSA C22.2 No. 60950
c-Ul-us for hazardous locations	UL 1604, UL 2279Pt.15
FM	FM 3611
C-TICK	AS/NZS 2064 (Class A).
CE	EN 50081-2, EN 50082-2
ATEX Zone 2	EN50021

MTBF	81.09 years
Construction	
Dimensions (W x H x D) in mm	60 x 125 x 124
Weight in g	780
Installation options	• DIN rail • S7-300 standard rail • Wall mounting
Order numbers	
SCALANCE S602	6GK5602-0BA00-2AA3
SCALANCE S612	6GK5612-0BA00-2AA3
SCALANCE S613	6GK5613-0BA00-2AA3
"Industrial Ethernet TP and Fiber Optic Networks" manual	6GK1970-1BA10-0AA0
Order numbers for accessories	
IE FC Stripping Tool	6GK1901-1GA00
IE FC blade cassettes	6GK1901-1GB00
IE FC TP standard cable	6XV1840 2AH10
IE FC TP trailing cable	6XV1840-3AH10
IE FC TP marine cable	6XV1840-4AH10
IE FC RJ–45 Plug 180 pack of 1	6GK1 901-1BB10-2AA0
IE FC RJ–45 Plug 180 pack of 10	6GK1 901-1BB10-2AB0
IE FC RJ–45 Plug 180 pack of 50	6GK1 901-1BB10-2AE0

2.2 Installation

Note

The requirements of EN61000-4-5, surge test on power supply lines are met only when a Blitzductor VT AD 24V type no. 918 402 is used.

Manufacturer:
DEHN+SÖHNE GmbH+Co.KG Hans Dehn Str.1 Postfach 1640 D-92306 Neumarkt, Germany

⚠ WARNING

When used under hazardous conditions (zone 2), the SCALANCE S product must be installed in an enclosure.

To comply with ATEX 95 (EN 50021), this enclosure must meet the requirements of at least IP54 in compliance with EN 60529.

WARNING
EXPLOSION HAZARD: DO NOT DISCONNECT EQUIPMENT WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT.

Types of installation

The SCALANCE S can be installed in various ways:

- Installation on a 35 mm DIN rail
- Installation on a SIMATIC S7-300 standard rail
- Wall mounting

Note

When installing and operating the device, keep to the installation instructions and safety-related notices as described here and in the manual SIMATIC NET Industrial Ethernet Twisted Pair and Fiber Optic Networks /1/.

NOTICE

We recommend that you provide suitable shade to protect the device from direct sunlight.

This avoids unwanted warming of the device and prevents premature aging of the device and cabling.