8.5 SCALANCE XB008

Note

Note the article number in the technical specifications.

Table 8-5 Technical specifications of the SCALANCE XB008 (6GK5 008-0BA00-1AB2)

Technical specifications		
Article number		
SCALANCE XB008	6GK5 008-0BA00-1AB2	
Attachment to Industrial Ethernet		
Quantity	8	
Design	RJ-45 jacks with MDI-X pinning	
Properties	Half / full duplex	
Transmission rate	10/100 Mbps	
Permitted cable lengths (Industrial Ethernet)	**Alternative combinations per length range**	
0 to 55 m	• Max. 55 m IE TP Torsion Cable with IE FC RJ45 Plug 180 • Max. 45 m IE TP Torsion Cable with IE FC RJ45 + 10 m TP Cord via IE FC RJ45 Outlet	
0 to 85 m	• Max. 85 m IE FC TP Marine/Trailing Cable with IE FC RJ45 Plug 180 • Max. 75 m IE FC TP Marine/Trailing Cable + 10 m TP Cord via IE FC RJ45 Outlet	
0 to 100 m	• Max. 100 m IE FC TP Standard Cable with IE FC RJ45 Plug 180 • Max. 90 m IE FC TP Standard Cable + 10 m TP Cord via IE FC RJ45 Outlet	
Electrical data		
Power supply	Rated voltage	24 V DC
	Voltage range	19.2 to 28.8 V DC Safe Extra Low Voltage (SELV)
	Design	3-terminal plug-in block
Current consumption	Typical	150 mA
Power loss at 24 V DC	Typical	3.40 W
Overvoltage protection at input		PTC resettable fuse (0.6 A / 60 V)
Permitted ambient conditions		
Ambient temperature	During operation	-10 °C to +60 °C
	During storage	-40 °C to +80 °C
	During transportation	-40 °C to +80 °C
Relative humidity	During operation	≤ 95 % no condensation
Operating altitude	During operation	≤ 2,000 m above sea level at max. +60 °C ambient temperature < 3,000 m above sea level at max. +55 °C ambient temperature < 4,000 m above sea level at max. +50 °C ambient temperature

Technical specifications	
Design, dimensions and weight	
Immunity	EN 61000-6-2
Emission	EN 61000-6-4
Degree of protection	IP20
MTBF (EN/IEC 61709; 40 °C)	214 years
Housing material	Polycarbonate (plastic)
Weight	180 g
Dimensions (W x H x D)	45 x 100 x 87 mm
Installation options	• Mounting on a DIN rail • Wall mounting
Switching properties	
Aging time	300 seconds
Max. number of learnable MAC addresses	1024
Response to LLDP frames	Blocking
Response to spanning tree BPDU frames	Forwarding
CoS acc. to IEEE 802.1Q	Yes
QoS priority queues	2
IEEE 802.1Q tags (VLAN ID, priority) transparent forwarding	Yes
Maximum frame size	1536 bytes
Forwarding of PRP frames (Parallel Redundancy Protocol)	Yes

Note

The number of IE switches of the SCALANCE XB-000 product line connected in a line influences the frame delay.

When a frame passes through IE switches of the SCALANCE XB-000 product line, it is delayed by the store and forward function of the switch

- with a 64 byte frame length by approx. 10 microseconds (at 100 Mbps)
- with a 1500 byte frame length by approx. 130 microseconds (at 100 Mbps)

This means the more devices of the SCALANCE XB-000 product line that the frame passes through, the longer the frame propagation time.

Table 8-6 Technical specifications of the SCALANCE XB008 (6GK5 008-0BA10-1AB2)

Technical specifications	
Article number	
SCALANCE XB008	6GK5 008-0BA10-1AB2
Attachment to Industrial Ethernet	
Quantity	8