SIEMENS

Data sheet 6GK5100-4AV00-2FA2

product type designation	**SCALANCE XC100-4OBR, SM**
product description	Optical bypass relay for single-mode fiber-optic networks with Tap function

********** spare part ********* SCALANCE XC100-4OBR; optical bypass relay; LED diagnostics; error-signaling contact and set pushbutton; redundant power supply; including electronic manual on CD-ROM 4x optical SC ports; single-mode fiber-optic cable.



product brand name	SCALANCE
transfer rate	
transfer rate	
● for Industrial Ethernet	100 Mbit/s, 1000
interfaces	
number of 100 Mbit/s SC ports	
● for single mode (LD) / integrated	4
design of the optical interface / for network components or terminal equipment	SC
transmission loss	
● at Rx-In P1 and Tx-Out P2	4.1 dB
● at Rx-In P2 and Tx-Out P1	4.1 dB
● at Rx-In P1 and Tx-Out P1'	5.7 dB
● at Rx-In P2 and Tx-Out P2'	5.7 dB
● at Rx-In P1' and Tx-Out P1	1.2 dB
● at Rx-In P2' and Tx-Out P2	1.2 dB
supply voltage	
type of voltage supply	DC
supply voltage / external	24 V
● minimum	12 V
● maximum	48 V
consumed current / maximum	0.1 A
mechanical data	
material / of the enclosure	Metal/plastic
design, dimensions and weights	
width	50 mm
height	140 mm
depth	125 mm
net weight	550 g
product feature / conformal coating	Yes
fastening method	
● S7-300 rail mounting	Yes
● S7-1500 rail mounting	Yes
● 35 mm DIN-rail mounting	Yes
● wall mounting	No
ambient conditions	
ambient temperature	

Subject to change without notice
© Copyright Siemens

● during operation	-40 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
protection class IP	IP20
product features, product functions, product components / general	
product feature	
● silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	
● RoHS conformity	Yes
● UL approval	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	ATEX II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X, EN 60079-15 : 2010, EN 60079-0 : 2009, FM Class3611, FM Hazardous Location Electrical Equipment Non Incendive / Class I / Division 2 / Groups A,B,C,D / T4, FM Non Incendive / Class I / Zone 2 / Group IIC / T4, cULus for Hazardous Location ANS/ISA 12.12.01-2007, CSA C22.2 No. 213-M1987, Approved for use in CI. 1, DIV. 2, GPA, B, C, D T4 and CI. 1, Zone 2, GP IIC T4
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

Approvals / Certificates

General Product Approval

Declaration of Conformity | China RoHS | Manufacturer Declaration

General Product Approval	EMV	For use in hazardous locations	Test Certificates
Miscellaneous		FM	Type Test Certificates/Test Report

last modified: 7/16/2026

Subject to change without notice
© Copyright Siemens