PROSAFE-RS OPTICAL ESB

Product Data Sheet

SNT511-5F S2

Long-Range Optical ESB Slave

CURRENT CONSUMPTION	CONNECTION TOPOLOGIES	MAXIMUM OPTICAL STAGES	TOTAL OPTICAL DISTANCE
0.5 A	**Star and chain**	**2**	**5 to 50 km across two stages**

Yokogawa SNT511-5F S2 is the remote slave for the long-range ProSafe-RS optical ESB bus. It accepts the optical link from a compatible SNT411 master or an explicitly supported S2EN501 option and connects electrically to the SSB401 interface on SNB10D. The F selection must follow the manufacturer optical pairing table.

01 TECHNICAL DATA

Current consumption	0.5 A
Connection topologies	Star and chain
Maximum optical stages	2
Total optical distance	5 to 50 km across two stages
Minimum SENG revision	R1.03
Minimum SCS revision	R1.03
Optical path loss requirement	3 to 4 dB
Low-loss cable attenuator	3 dB when cable loss is below 3 dB
Remote node connection	SSB401 on SNB10D
Optical network applicability	Vnet/IP only

Yokogawa GS 32Q06L15-31E, seventh edition, 2019; applicable SNT411/SNT511 specifications and installation restrictions.;

02 ADDITIONAL PRODUCT DATA

Optical connector	LC; IEC 61754-20
Optical fiber specification	Quartz single-mode; JIS C 6835 SSMA-9.3/125 or IEC 60793-2-50 B1.1
Optical fiber cores	2 cores
Optical wavelength	1.55 micrometres
Maximum permissible optical path loss	16 dB for style S2 or later

03 PRODUCT FUNCTION

The SNT411/SNT511 family supports Vnet/IP optical transport over a combined 5 to 50 km route with no more than two stages. Each repeater consumes 0.5 A. The specified optical attenuation is 3 to 4 dB, and a 3 dB attenuator is required when cable loss is below 3 dB; SENG and SCS R1.03 or later are listed.

04 SYSTEM COMPATIBILITY

Check that the total one- or two-stage route falls within 5 to 50 km and that the optical loss follows the 3 to 4 dB requirement. Because this slave is style S2, the reduced-loss exception for two S1 endpoints does not establish its attenuation requirement.

05 REFERENCE

Yokogawa GS 32Q06L15-31E, seventh edition, 2019; applicable SNT411/SNT511 specifications and installation restrictions.; Yokogawa IM 32Q06C10-31E, sections 4.5 and Table 4.5-2.

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