PROSAFE-RS OPTICAL ESB

Product Data Sheet

SNT411-5F S2

Long-Range Optical ESB Master

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 SNT411-5F S2 is the master module for the long-range ProSafe-RS optical ESB connection. It extends the electrical ESB interface to a matched SNT511 or an explicitly supported S2EN501 endpoint over the optical path. The SNT411/SNT511 specification supports star and chain layouts on Vnet/IP-based systems.

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
Required optical attenuation	3 to 4 dB
Attenuator below 3 dB cable loss	3 dB
Supported control network	Vnet/IP only
Distant-node serial restriction	No ALR111/ALR121 on SNB10D beyond 5 km

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 family covers a total optical distance of 5 to 50 km across no more than two stages and lists 0.5 A current consumption. The link requires 3 to 4 dB optical attenuation; when cable attenuation is below 3 dB, the specification calls for a 3 dB attenuator. SENG and SCS R1.03 or later are required, and the F endpoint pairing must be maintained.

04 SYSTEM COMPATIBILITY

Calculate the entire two-stage optical route within the 5 to 50 km range. The specified optical attenuation is 3 to 4 dB; use the documented attenuator arrangement if cable attenuation is too low. The 1 to 2 dB exception applies only when both endpoint styles are S1, not to this S2 master.

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.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**