PROSAFE-RS OPTICAL ESB

Product Data Sheet

SNT501-E3 S1

Optical ESB Slave Module

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

Yokogawa SNT501-E3 S1 provides the remote slave endpoint for the ProSafe-RS optical ESB bus. Its optical input is paired with a final 3 SNT401 master, and its electrical ESB connection serves the SSB401 interface on SNB10D. The E suffix selects explosion protection, while the final 3 identifies the G3 extended-temperature maintenance version.

01 TECHNICAL DATA

Current consumption	0.5 A
Connection topologies	Star and chain
Maximum optical stages	2
Total optical distance	Up to 5 km across two stages
Minimum SENG revision	R1.02
Minimum SCS revision	R1.02
Approval selection E	Explosion protection; conditions apply
Maintenance temperature selection	-20 to 70 C
Corrosion environment selection	ISA Standard G3
Optical connector	LC; IEC 61754-20

Yokogawa GS 32Q06L16-31E, seventh edition, 2019; applicable SNT401/SNT501 specifications and installation restrictions.;

02 ADDITIONAL PRODUCT DATA

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	1.3 micrometres
Permissible optical path loss	0 to 16 dB
Laser safety class	Class 1; IEC 60825

03 PRODUCT FUNCTION

The SNT401/SNT501 specification lists 0.5 A consumption and a maximum of two connecting stages. Star and chain configurations are supported with a general 5 km combined route; the longer 10 km configuration is conditional on the documented Vnet/IP revision. A redundant slave pair uses the prescribed adjacent odd/even slots.

04 SYSTEM COMPATIBILITY

Use the published 5 km combined route unless the Vnet/IP revision supports the specified extension to 10 km. Include each 0.5 A slave in the local load calculation and retain identical suffix codes for both modules in a redundant pair.

05 REFERENCE

Yokogawa GS 32Q06L16-31E, seventh edition, 2019; applicable SNT401/SNT501 specifications and installation restrictions.; Yokogawa IM 32Q06C10-31E, sections 4.5 and Table 4.5-2.

AMIKON PRODUCT SUPPORT

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