PROSAFE-RS OPTICAL ESB

# Product Data Sheet

## SNT501-13 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 SNT501-13 S1 is the slave endpoint of a ProSafe-RS optical ESB extension. It receives the optical connection from the corresponding master and presents the electrical ESB connection to the SSB401 interface on the remote SNB10D safety node. The slave role is distinct from the master function performed by SNT401.

## 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 |
| Remote electrical ESB interface | SSB401 on SNB10D |
| Matched optical master | SNT401 with final suffix 3 |
| Duplex mounting positions | Adjacent odd/even slots |
| 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

SNT401/SNT501 supports star and chain arrangements with up to two optical stages and a general total route of 5 km. The manufacturer lists 0.5 A consumption and minimum SENG/SCS revisions of R1.02. Redundant slaves are installed as a consecutive odd/even pair, and final 3 optical endpoints are matched together.

## 04 SYSTEM COMPATIBILITY

Budget 0.5 A for each installed slave and count the total length across the optical stages. The standard two-stage limit is 5 km; only the specifically documented Vnet/IP R1.03-or-later arrangement permits the longer 10 km combined path.

## 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.

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