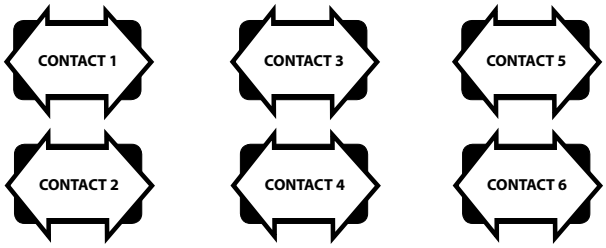
MERIDIAN TECHNOLOGIES

Digitally Encoded Six Full Duplex Contact Closure Channels

SXA/SXB-6C/6C-x

SXA/SXB-6C/6C-xS



FEATURES:

- Six Full Duplex Contacts
- User-selectible, Contact Mapping (N.O, N.C)
- Laser Based Systems for Multimode and Singlemode Fiber
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- *SpectraSmart* Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Screw Terminal or DB-25 Type Connectors for Contact Closure
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

DESCRIPTION:

This module in the DigiSlim™ product family incorporates an all-digital encoding technology. It's transmits six Bi-directional Contact Closure channels over one multimode or singlemode fiber.
The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.).
Convenient Screw Terminal or DB-25 connector is used for easy connection of the Contact Closure interface.
Status indicators provide visual indication of the operational status of the contact. The SXA/SXB-6C/6C-x system is available with Meridian's *SpectraSmart*™ Network management and diagnostic PC based system. See the *SpectraSmart*™ brochures for additional details.

CONFIGURATIONS:

The SXA/SXB-6C/6C-x system is available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be transformed in to a standalone module by utilizing an SR-500 (standard configuration) or an SR-1002.

MARKETS:

Security and surveillance
Access Control

SPECIFICATIONS:

Data

Contact Type	Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Optical

Fiber Data Rate	250 Mb/s

Connectors

Optical	ST - MM(default), FC- SM(default)
Power (module)	See SR-500 Brochure for details
Data	Screw Terminal or DB-25 Connector

Power **

Card	4 Watts

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
12 - Green	Contact Closure Present

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W
	20mm (0.80") W
Weight (Card)	450 gms (0.9 lb)
No. of Slots	1
Module	See SR-500 Brochure

Environmental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

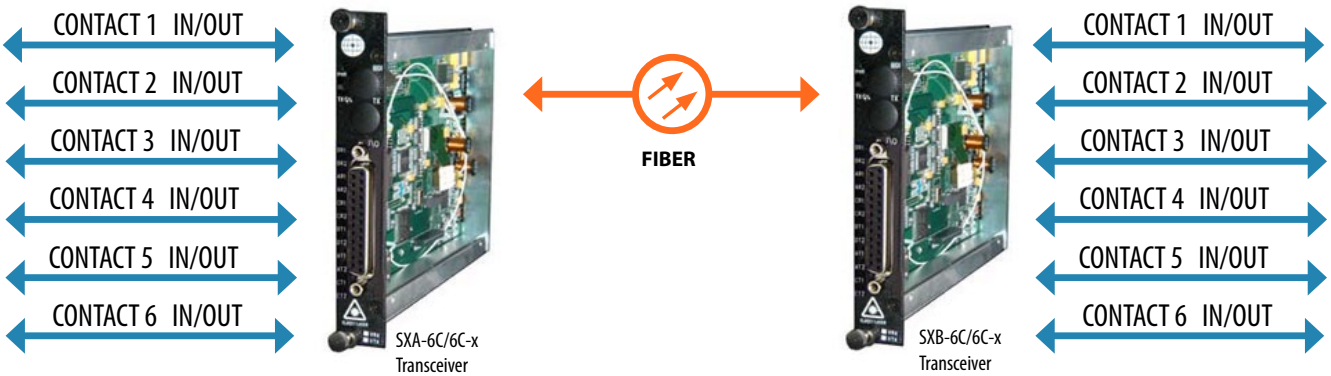
MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F

Part Numbers:

SX □ —— **6C/6C** □ □ - □

- TRANSCEIVER **A** (850 / 1300nm) (1310 / 1550nm)
- TRANSCEIVER **B** (1300 / 850nm) (1550 / 1310nm)
- MULTIMODE **2**
- SINGLE-MODE **5**
- CONFORMAL COATING **C**
- SpectraSmart ™ DIAGNOSTICS **D**
- Screw Terminal connector **S**
- **FC** SINGLE-MODE OPTICAL CONNECTOR
- **ST** SINGLE-MODE OPTICAL CONNECTOR

* *measured @ max. optical budget*
** *Due to variations of drivers and diagnostic options, power shown @ max value*



SXA/SXB-6C/6C-x is shown.

OPTICAL:

* Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
2	Multimode (FP Laser) 62.5 / 125	-5	-28	23	1300 / 850	ST	28	4
5	Singlemode (FP Laser) 9 / 125	-5	-28	23	1310 / 1550	ST, FC	28	70

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