

FT010CB / FT080CF

Contact Closure Transceivers



Features

Contact Closure

- ▶ 2ms response time
- ▶ Normally open

Optical

- ▶ One fiber design
- ▶ High performance laser-based optics
- ▶ Multimode or Singlemode
- ▶ ST or FC connectors available

Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ Hot-swappable design
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

Warranty

- ▶ Comprehensive Lifetime Warranty

Description

The FT010CB and FT080CF contact closure series transmits one channel of bi-directional contact closure or up to 8-channels of one-way contact closures. This series feature high-performance laser-based optics for the clearest, most reliable transmission in both single and multi-mode with no video degradation.

A plug-and-play product, provides compatibility in most application designs and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. The product features in card module or standalone type.

Video Transmission

Typical Application



Specifications

Contact Closures

| | |
|---------------------------|--------------------------|
| Number of Channels | 1 / 8 |
| Direction (FT010CB) | Bi-directional |
| Direction (FT080CF) | Forward |
| Input Type | Dry Contact or TTL input |
| Output Type | Dry Contact, NO or NC |
| Dry contact Output Rating | Max. 32VDC/VAC @ 100mA |

LED

| | |
|--------------------------------|-------------------|
| Contact Closure Input / Output | Red/Green LED lit |
| Optical Carrier Detected | Yellow / Active |
| Power | Red/On |

Connectors

| | |
|--------------------------------|------------------------------|
| Contact Closure Input / Output | 5-pin screw terminal |
| Optical Input / Output | ST (standard), FC (optional) |
| Power (Standalone) | 2-pin screw terminal block |
| Power (Rack-mount) | Bus connector |

Electrical and Mechanical

| | |
|--------------------------------|-------------------------|
| FT010CB | |
| Power (Standalone) | 12VDC @ 2.4W |
| Power (Rack Mount) | From FT-C18 Chassis |
| Dimensions(WxHxD) (Standalone) | 156 x 30.5 x 223mm(Max) |
| Dimensions(WxHxD) (Rack Mount) | 148 x 20.4 x 213mm(Max) |
| Shipping Weight (Standalone) | 0.58kg |
| Shipping Weight (Rack Mount) | 0.2kg |

| | |
|--------------------------------|-------------------------|
| FT080CF | |
| Power (Standalone) | 12VDC @ 4.2W |
| Power (Rack Mount) | From FT-C18 Chassis |
| Dimensions(WxHxD) (Standalone) | 156 x 50.5 x 223mm(Max) |
| Dimensions(WxHxD) (Rack Mount) | 148 x 41.4 x 213mm(Max) |
| Shipping Weight (Standalone) | 0.78kg |
| Shipping Weight (Rack Mount) | 0.28kg |

Environmental

| | |
|-------------------|-------------------------|
| Operating Temp | -40°C to +75°C |
| Storage Temp | -40°C to +85°C |
| Relative Humidity | 0 to 95% non-condensing |
| MTBF | > 100,000 hours |

Ordering Information

| Fiber Type | Part Number | Description | Wavelengths (nm) | Optical Power Budget (dB) | Max. Distance (Km) | No. of slots |
|-------------------------|--------------|--|------------------|---------------------------|--------------------|--------------|
| Multi-mode (62.5/125µm) | FT010CB-SMTR | 1-ch bidirectional Contact Closure Transceiver | 1310 1550 | 23 | 4 | 1 |
| | FT010CB-SMRT | 1-ch bidirectional Contact Closure Transceiver | | | | |
| | FT080CF-SMT | 8-ch One-way Contact Closure Transmitter | 1310 | 23 | 4 | 2 |
| | FT080CF-SMR | 8-ch One-way Contact Closure Receiver | | | | |
| Single-mode (9/125µm) | FT010CB-SSTR | 1-ch bidirectional Contact Closure Transceiver | 1310 1550 | 17 | 20 | 1 |
| | FT010CB-SSRT | 1-ch bidirectional Contact Closure Transceiver | | | | |
| | FT080CF-SST | 8-ch One-way Contact Closure Transmitter | 1310 | 17 | 20 | 2 |
| | FT080CF-SSR | 8-ch One-way Contact Closure Receiver | | | | |

- | | |
|--------------------|---|
| Options | <ul style="list-style-type: none"> ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMTR/FMT For Standalone type, please add "SA". E.g. SMTRSA/SMTSA Please feel free to consult factory if longer transmission distance is required. |
| Power Adaptor | <ul style="list-style-type: none"> Power adaptor is included in Standalone type only. |
| Rack Mount Chassis | <ul style="list-style-type: none"> FT-C18 is to be purchased separately. Please refer to accessories section for the details. |

- Notes:
- Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
 - Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
 - Power adaptor is manufactured by third party and is supplied with fitted screw - terminal output cables.
 - Please feel free to consult factory for any special requirement and customization.



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Due to continuous improvement, all product specifications are subject to change without further notice.