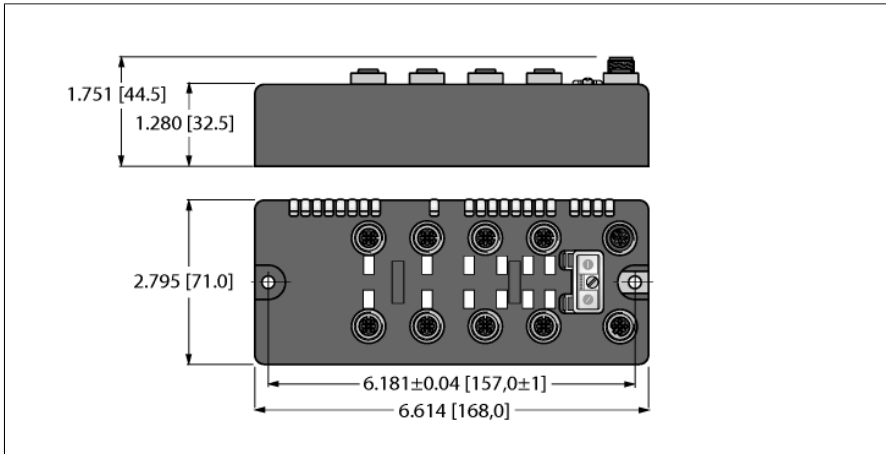


BL compact™ fieldbus station for CANopen

8 Digital PNP Inputs

BLCCO-8M12L-4DI-P-4DI-P

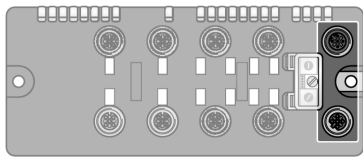


| | |
|------------------------------------|-----------------------------------|
| Type | BLCCO-8M12L-4DI-P-4DI-P |
| ID | 6811307 |
| Nominal system voltage | 24 VDC |
| System power supply | Via CANopen |
| Admissible range V+ | 11...30 VDC |
| Nominal current V+ | 110 mA |
| Max. current V+ | 4 A |
| Fieldbus transmission rate | 10 kbps ... 1 Mbps |
| Adjustment transmission rate | Automatic detection |
| Fieldbus address range | 1...99 |
| Fieldbus addressing | 2 decimally coded rotary switches |
| Fieldbus connection technology | 2 × M12 |
| | 5-pole |
| Fieldbus termination | external |
| Service interface | RS232 interface |
| Digital inputs | |
| Input type | PNP |
| Type of input diagnostics | Group diagnostics |
| Sensor supply (V _{SENS}) | 24 VDC |
| Low-level signal voltage | < 4.5 VDC |
| High level signal voltage | 7 ... 30 VDC |
| Low level signal current | < 1.5 mA |
| High level signal current | 2.1 ... 3.7 mA |
| Input delay | 0.25 ms |

- On-machine Compact fieldbus I/O block
- CANopen slave
- 10, 20, 50, 125, 250, 500, 800, or 1000 kbps
- Two 5-pole M12 connectors for fieldbus connection
- 2 rotary switches for node address
- IP67, IP69K
- M12 I/O connectors
- LEDs indicating status and diagnostics
- Electronics galvanically separated from the field level via optocouplers
- 8 digital PNP inputs, 24 VDC

| | |
|-----------------------------------|--|
| Dimensions | 168 x 71 x 32.5 mm |
| Mounting | 2 × 5.4 mm diameter holes, 1.7 Nm torque |
| Weight | 550 ± 20 g |
| Housing material | Glass-filled nylon, nickel plated brass connectors |
| Housing color | Black |
| Material screw | Nickel-plated brass |
| Material label | Polyester with polycarbonate overlay |
| Ground label material | Nickel plated brass |
| Protection class | IP67 IP69K |
| Ambient temperature | -40...+70 °C |
| Storage temperature | -40...+85 °C |
| Relative humidity | 15 to 95% (non-condensing) |
| Vibration test | Acc. to IEC 61131-2 |
| - up to 20 g (at 10 up to 150 Hz) | For mounting on base plate or machinery |
| Shock test | according to IEC 61131-2 |
| Electromagnetic compatibility | Acc. to IEC 61131-2 |
| Approvals and certificates | CE, cULus |

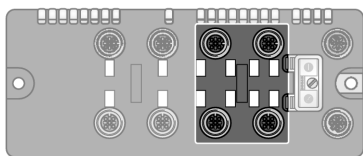
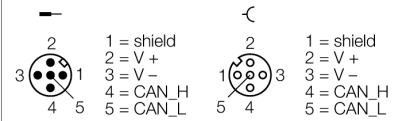
Pinning and wiring diagram



CANopen

Fieldbus cable (example): RSC RKC 572-2M ident-no. U0323 or RSC-RKC572-2M ident-no. 6603629

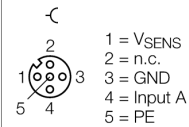
Pin Assignment



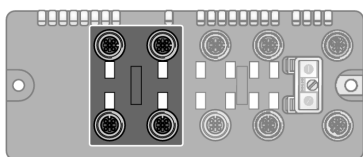
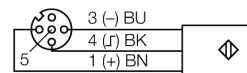
Slot 1: Digital Inputs

Extension cable (example): RK 4.4T-2-RS 4.4T ident-no. U2445 or RKC4.4T-2-RSC4.4T/TEL ident-no. 6625208

Pin Assignment



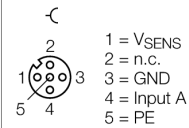
Wiring Diagram



Slot 2: Digital Inputs

See slot 1

Pin Assignment



Station LED status

| LED | Color | Status | Description |
|-----------|-------------------------|-----------------|--------------------------------------|
| IOs | | OFF | No power |
| | RED | ON | Low power or station error |
| | RED | FLASHING (1 Hz) | I/O module configuration error |
| | RED | FLASHING (4 Hz) | No I/O module bus communication |
| | GREEN | ON | Station ok |
| | GREEN | FLASHING | Force mode active |
| ERR | - | OFF | No communication error |
| | RED | ON | CAN bus communication error |
| BUS | GREEN | ON | NMT-slave state is „Operational“ |
| | ORANGE | ON | NMT-slave state is „Pre-Operational“ |
| | RED | ON | NMT-slave state is „Stopped“ |
| ERR & BUS | RED (ERR) & GREEN (BUS) | FLASHING (4 Hz) | Searching for the baud rate |

I/O LED status slot 1

| LED | Color | Status | Description |
|---|-------|------------------|---|
| D1 * | | OFF | No diagnostics active |
| | RED | ON | Station error/ module bus communication failure |
| | RED | FLASHING (0.5Hz) | Diagnostics active (Slot 1) |
| DI channels 1 ₀ ...1 ₃ | | OFF | Status of channel x = "0" (OFF) |
| | GREEN | ON | Status of channel x = "1" (ON) |

* D1 LED also indicates gateway diagnostics

I/O LED status slot 2

| LED | Color | Status | Description |
|---|-------|------------------|---|
| D2 * | | OFF | No diagnostics active |
| | RED | ON | Station error/ module bus communication failure |
| | RED | FLASHING (0.5Hz) | Diagnostics active (Slot 2) |
| DI channels 2 ₀ ...2 ₃ | | OFF | Status of channel x = "0" (OFF) |
| | GREEN | ON | Status of channel x = "1" (ON) |

* D2 LED also indicates gateway diagnostics

I/O Data Map

| INPUT | BYTE | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|--------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 0 | DI 2 ₇ | DI 2 ₆ | DI 2 ₅ | DI 2 ₄ | DI 1 ₃ | DI 1 ₂ | DI 1 ₁ | DI 1 ₀ |
| | 1 | - | - | - | - | - | - | - | - |