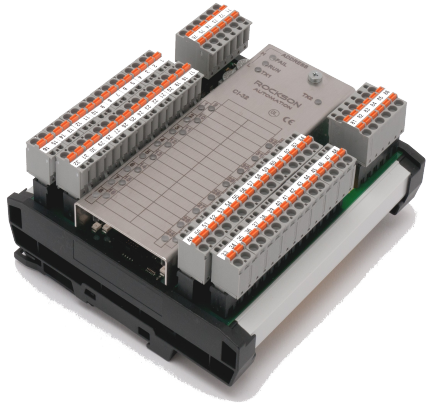


## Internal Hardware

### M001 CI-32 32 Channel Contact Input Module



#### Features

- Space saving and cost-effective solution
- 32 two-wire inputs for dry contacts
- Detachable terminal blocks per channel
- Complete: No distribution strips required
- Built-in isolated contact supply
- Built-in earth fault monitor
- Easy bundling of several contacts to one common return wire
- Pulse counting and frequency measurement
- Redundant power supply inputs
- Redundant isolated field buses
- Easy replacing: Just set address and go

#### Specifications

##### Physical

|                |                   |
|----------------|-------------------|
| Size W x H x D | 128 x 140 x 65 mm |
| Mounting       | 35 mm DIN rail    |
| Protection     | IP20              |
| Weight         | 411 g             |

##### Power supply

|                      |              |
|----------------------|--------------|
| Supply voltage range | 18 – 32 V DC |
| Power consumption    | 2 W          |

##### Contact inputs

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Open circuit voltage                    | 3.3 V                                  |
| Measuring current                       | 1.5 mA                                 |
| Maximum resistance for „closed“ contact | 500 Ohms or 100 Ohms plus 1 diode drop |
| Minimum resistance for „open“ contact   | 4.000 Ohms                             |
| Minimum pulse with                      | 500 µs                                 |
| Maximum frequency                       | 1.000 Hz @ 50% duty cycle              |

##### Field buses

|            |            |
|------------|------------|
| Electrical | RS485      |
| Protocol   | Modbus RTU |

##### Agency Approvals

|                         |                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| EMI                     | IEC 60945 Chapters 9.2, 9.3                                                                                                                |
| EMS                     | EN61000-4-2 (ESD), level 3, EN61000-4-3 (RS), level 3, EN61000-4-4 (EFT), level 3, EN61000-4-5 (Surge), level 2, EN61000-4-6 (CS), level 2 |
| Vibration               | IEC60068-2-6                                                                                                                               |
| Dry Heat                | IEC60068-2-2                                                                                                                               |
| Humidity                | IEC60068-2-30                                                                                                                              |
| Low Temperature         | IEC60068-2-1                                                                                                                               |
| Maritime Specifications | DNV GL, LR, IACS, BV                                                                                                                       |