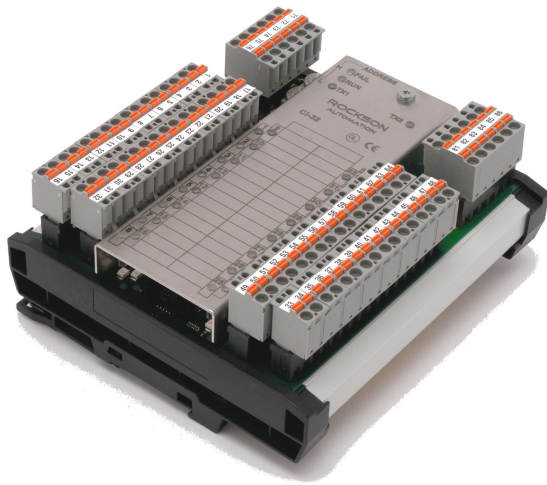


## CI-32 32 Channel Contact Input Module



### 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<br>100 Ohms plus 1 diode drop |

|                                       |                          |
|---------------------------------------|--------------------------|
| Minimum resistance for „open“ contact | 4000 Ohms                |
| Minimum pulse width                   | 500 µs                   |
| Maximum frequency                     | 1000 Hz @ 50% duty cycle |

#### Field buses

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

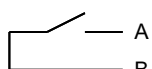
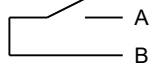
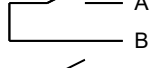
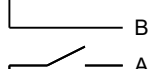
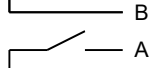
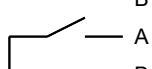
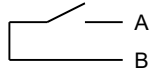
#### Agency Approvals:

|                         |                              |
|-------------------------|------------------------------|
| 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 | GL, LR, DNV, IACS, BV        |

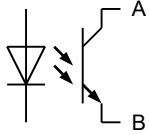
# CI-32 32 Channel Contact Input Module

## Terminal Assignment

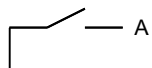
### DRY CONTACT

|                                                                                     |   | CI-32 |       |       |       |
|-------------------------------------------------------------------------------------|---|-------|-------|-------|-------|
|                                                                                     |   | A     | B     | A     | B     |
|    | A | CH 01 | 1 2   | CH 32 | 63 64 |
|                                                                                     | B | CH 02 | 3 4   | CH 31 | 61 62 |
|    | A | CH 03 | 5 6   | CH 30 | 59 60 |
|                                                                                     | B | CH 04 | 7 8   | CH 29 | 57 58 |
|    | A | CH 05 | 9 10  | CH 28 | 55 56 |
|                                                                                     | B | CH 06 | 11 12 | CH 27 | 53 54 |
|    | A | CH 07 | 13 14 | CH 26 | 51 52 |
|                                                                                     | B | CH 08 | 15 16 | CH 25 | 49 50 |
|    | A | CH 09 | 17 18 | CH 24 | 47 48 |
|                                                                                     | B | CH 10 | 19 20 | CH 23 | 45 46 |
|    | A | CH 11 | 21 22 | CH 22 | 43 44 |
|                                                                                     | B | CH 12 | 23 24 | CH 21 | 41 42 |
|   | A | CH 13 | 25 26 | CH 20 | 39 40 |
|                                                                                     | B | CH 14 | 27 28 | CH 19 | 37 38 |
|  | A | CH 15 | 29 30 | CH 18 | 35 36 |
|                                                                                     | B | CH 16 | 31 32 | CH 17 | 33 34 |

### EXTERNAL OPTOCOUPLER

|                                                                                   |   | CI-32 |       |       |       |
|-----------------------------------------------------------------------------------|---|-------|-------|-------|-------|
|                                                                                   |   | A     | B     | A     | B     |
|  | A | CH 01 | 1 2   | CH 32 | 63 64 |
|                                                                                   | B | CH 02 | 3 4   | CH 31 | 61 62 |
|                                                                                   |   | CH 03 | 5 6   | CH 30 | 59 60 |
|                                                                                   |   | CH 04 | 7 8   | CH 29 | 57 58 |
|                                                                                   |   | CH 05 | 9 10  | CH 28 | 55 56 |
|                                                                                   |   | CH 06 | 11 12 | CH 27 | 53 54 |
|                                                                                   |   | CH 07 | 13 14 | CH 26 | 51 52 |
|                                                                                   |   | CH 08 | 15 16 | CH 25 | 49 50 |
|                                                                                   |   | CH 09 | 17 18 | CH 24 | 47 48 |
|                                                                                   |   | CH 10 | 19 20 | CH 23 | 45 46 |
|                                                                                   |   | CH 11 | 21 22 | CH 22 | 43 44 |
|                                                                                   |   | CH 12 | 23 24 | CH 21 | 41 42 |
|                                                                                   |   | CH 13 | 25 26 | CH 20 | 39 40 |
|                                                                                   |   | CH 14 | 27 28 | CH 19 | 37 38 |
|                                                                                   |   | CH 15 | 29 30 | CH 18 | 35 36 |
|                                                                                   |   | CH 16 | 31 32 | CH 17 | 33 34 |

### FOR COMMON RETURN WIRE USE EVEN NUMBERS

|                                                                                     |   | CI-32 |       |       |       |
|-------------------------------------------------------------------------------------|---|-------|-------|-------|-------|
|                                                                                     |   | A     | B     | A     | B     |
|  | A | CH 01 | 1 2   | CH 32 | 63 64 |
|                                                                                     | A | CH 02 | 3 4   | CH 31 | 61 62 |
|                                                                                     | A | CH 03 | 5 6   | CH 30 | 59 60 |
|                                                                                     | A | CH 04 | 7 8   | CH 29 | 57 58 |
|                                                                                     | A | CH 05 | 9 10  | CH 28 | 55 56 |
|                                                                                     | A | CH 06 | 11 12 | CH 27 | 53 54 |
|                                                                                     | A | CH 07 | 13 14 | CH 26 | 51 52 |
|                                                                                     | A | CH 08 | 15 16 | CH 25 | 49 50 |
|                                                                                     | A | CH 09 | 17 18 | CH 24 | 47 48 |
|                                                                                     | A | CH 10 | 19 20 | CH 23 | 45 46 |
|                                                                                     | A | CH 11 | 21 22 | CH 22 | 43 44 |
|                                                                                     | A | CH 12 | 23 24 | CH 21 | 41 42 |
|                                                                                     | A | CH 13 | 25 26 | CH 20 | 39 40 |
|                                                                                     | A | CH 14 | 27 28 | CH 19 | 37 38 |
|                                                                                     | A | CH 15 | 29 30 | CH 18 | 35 36 |
|                                                                                     | A | CH 16 | 31 32 | CH 17 | 33 34 |
|                                                                                     | B |       |       |       |       |

# CI-32 32 Channel Contact Input Module

## connection diagram

LED FAIL: Red. Lights up in case of failure or earth fault.

LED RUN: Green. Lights steady when module is running.

LED Tx1: Yellow. Flickers when module is communicating with fieldbus at X5.

LED Tx2: Yellow. Flickers when module is communicating with fieldbus at X6.

