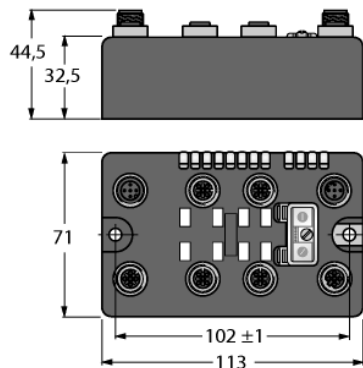


**BL compact veldbusstation voor DeviceNet**  
**4 Digital PNP Outputs**  
**BLCDN-4M12MT-4DO-2A-P**

- On-Machine™ compacte veldbus I/O-blocks
- DeviceNet™ slave
- 125/250/500 kbps
- Two 5-pin M12 male receptacles for fieldbus connection
- 2 rotary coding switches for node-address
- IP 69K
- M12 I/O ports
- LEDs indicating status and diagnostics
- Electronics galvanically isolated from the field level via optocouplers
- 4 digital PNP outputs, 24 VDC
- Max. 2 A per output (4 A total)

|           |                       |
|-----------|-----------------------|
| Type      | BLCDN-4M12MT-4DO-2A-P |
| Ident no. | 6811009               |

|                                     |                             |
|-------------------------------------|-----------------------------|
| Nominale systeemspanning            | 24 VDC                      |
| Systeemvoeding                      | via veldbus en hulpspanning |
| Aansluittechniek - spanningsvoeding | 2 x M12, 4-polig            |
| Toegelaten bereik V+                | 11...30 VDC                 |
| Nominale stroom V+                  | 30 mA                       |
| Max. stroom V+                      | 4 A                         |
| Toegelaten bereik Vo                | 11...30 VDC                 |
| Nominale stroom Vo                  | 100 mA                      |
| Max. stroom Vo                      | 4 A                         |

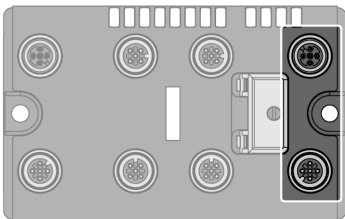
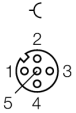
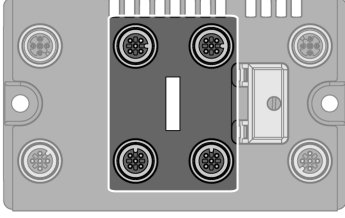
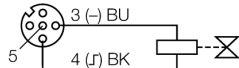
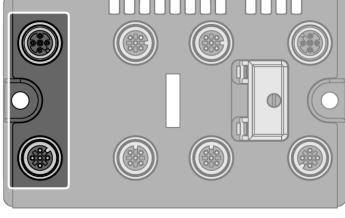
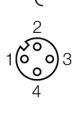
|                                |                                 |
|--------------------------------|---------------------------------|
| Transmissiesnelheid veldbus    | 125/250/500 Kbit/s              |
| Instelling transmissiesnelheid | automatische herkenning         |
| Adresbereik veldbus            | 0...63                          |
|                                | 64...80 (MACID-programmeerbaar) |
|                                | 81...99 (fabrikantsspecifiek)   |
| Adressering veldbus            | 2 dec. Rotary coding switches   |
| Aansluittechniek veldbus       | 2 x M12                         |
|                                | 5-pin                           |
| Veldbusafsluiting              | External                        |
| Service-interface              | RS232 interface                 |
| Verkoper ID                    | 48                              |
| Producttype                    | 12                              |
| Productcode                    | 11009                           |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Digitale uitgangen                 |                                 |
| Uitgang                            | PNP                             |
| Type uitgangsdiaagnose             | Kanaaldiagnose                  |
| Sensorvoeding (V <sub>SENS</sub> ) | 24 VDC from supply voltage      |
| Uitgangsstroom per kanaal          | 2 A                             |
| Uitgangsspanning                   | 24 VDC uit voedingsspanning     |
| Uitgangsvertraging                 | 3 ms                            |
| Belastingstype                     | Resistive, inductive, lamp load |
| Lastweerstand ohmsch               | > 12 Ω                          |
| Lastweerstand inductief            | < 1.2 H                         |
| Lampbelasting                      | < 10 W                          |
| Schakelfrequentie ohmsch           | < 200 Hz                        |
| Schakelfrequentie inductief        | < 2 Hz                          |
| Schakelfrequentie lampbelasting    | < 20 Hz                         |
| Kortsluitbeveiliging               | Ja                              |

**BL compact veldbusstation voor DeviceNet**  
**4 Digital PNP Outputs**  
**BLCDN-4M12MT-4DO-2A-P**

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| <b>Afmetingen</b>                  | 113 x 71 x 32.5 mm                                    |
| Montage                            | 2 × 5,4 mm diameter opening, 1,7 Nm draaimoment       |
| Gewicht                            | 390 ± 20 g                                            |
| Behuizingsmateriaal                | Glass fiber reinforced nylon, nickel-plated connector |
| Behuizingskleur                    | zwart                                                 |
| Materiaal schroef                  | Vernikkelde messing                                   |
| Materiaal label                    | Polyester met bekleding uit polycarbonaat             |
| Materiaal etiket aarding           | Nickel-plated brass                                   |
| Beschermingsgraad                  | IP67<br>IP69K                                         |
| Omgevingstemperatuur               | -40...+70 °C                                          |
| Opslagtemperatuur                  | -40...+85 °C                                          |
| Relatieve vochtigheid              | 15 to 95% (non-condensing)                            |
| Vibratietest                       | Volgens IEC 61131-2                                   |
| - tot 20 g (bij 10 tot 150 Hz)     | For mounting on base plate or machinery               |
| Schoktest                          | overeenkomstig IEC 61131-2                            |
| Elektromagnetische compatibiliteit | Volgens IEC 61131-2                                   |
| Goedkeuringen en certificaten      | CE, cULus                                             |

0

|                                                                                     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>DeviceNet</b><br/>veldbuskabel (voorbeeld): RSC RKC 572-2M Ident-No. U0323 of<br/>RSC-RKC572-2M Ident-No. 6603629</p>                    | <p>pinconfiguratie</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>1 = shield<br/>2 = V +<br/>3 = V -<br/>4 = CAN_H<br/>5 = CAN_L</p> </div> <div style="text-align: center;">  <p>1 = shield<br/>2 = V +<br/>3 = V -<br/>4 = CAN_H<br/>5 = CAN_L</p> </div> </div>      |
|    | <p><b>Digitale uitgangen</b><br/>verbindingskabel (voorbeeld): RK 4T-2-RS 4T Ident-No. U2151-3<br/>of RKC4T-2-RSC4T/TEL Ident-No. 6625204</p>  | <p>pinconfiguratie</p> <div style="text-align: center;">  <p>1 = V<sub>SENS</sub><br/>2 = n.c.<br/>3 = GND<br/>4 = Output A<br/>5 = PE</p> </div> <p>Aansluitschema</p> <div style="text-align: center;">  </div>                                                                                                            |
|  | <p><b>Hulpenergie</b><br/>verbindingskabel (voorbeeld): RKC 4.4T-2-RSC 4.4T Ident-No.<br/>U5264 of RKC4.4T-2-RSC4.4T/TEL Ident-No. 6625208</p> | <p>pinconfiguratie</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>1 = V<sub>I</sub><br/>2 = V<sub>O</sub><br/>3 = GND<br/>4 = GND</p> </div> <div style="text-align: center;">  <p>1 = shield<br/>2 = V +<br/>3 = V -<br/>4 = CAN_H<br/>5 = CAN_L</p> </div> </div> |

**BL compact veldbusstation voor DeviceNet**  
**4 Digital PNP Outputs**  
**BLCDN-4M12MT-4DO-2A-P****Status: Station LED**

| LED  | Color | Status            | Description                                       |
|------|-------|-------------------|---------------------------------------------------|
| IO's |       | UIT               | Geen spanningsvoeding                             |
|      | ROOD  | AAN               | spanningsvoeding onvoldoende                      |
|      | ROOD  | KNIPPEREND (1 Hz) | afwijkende stationsconfiguratie                   |
|      | ROOD  | KNIPPEREND (4 Hz) | geen modulebuscommunicatie                        |
|      | GROEN | AAN               | station OK                                        |
|      | GROEN | KNIPPEREND        | Force Mode actief                                 |
| MNS  |       | OFF               | No connection                                     |
|      | GREEN | ON                | Fieldbus communication active                     |
|      | GREEN | FLASHING (1Hz)    | Fieldbus communication disabled, device status OK |
|      | RED   | ON                | Double MAC-ID                                     |
|      | RED   | FLASHING          | Fieldbus communication timeout                    |
| IO   | GREEN | ON                | I/O slots OK                                      |
|      | GREEN | FLASHING (1Hz)    | At least one I/O slot in idle state               |
|      | RED   | ON                | At least one faulty I/O slot                      |
|      | RED   | FLASHING          | At least one I/O slot in faulty state             |

**Status: I/O LED**

| LED         | Color | Status             | Description                                        |
|-------------|-------|--------------------|----------------------------------------------------|
| D *         |       | UIT                | Geen diagnose actief                               |
|             | ROOD  | AAN                | stations / modulebus communicatiefout              |
|             | ROOD  | KNIPPEREND (0.5Hz) | gemeenschappelijke diagnose                        |
| DO channels |       | OFF                | Status channel x = 0 (OFF),<br>diagnostic disabled |
| 0...3       | GREEN | ON                 | Status channel x = 1 (ON)                          |
|             | RED   | ON                 | Short-circuit/overload at channel x                |

\* De „D“ LED signaleert ook de Gateway diagnose

**Mapping of I/O and Diagnostic Data**

| INPUT                         | BYTE | Bit 7                             | Bit 6 | Bit 5          | Bit 4 | Bit 3                          | Bit 2                          | Bit 1                          | Bit 0                          |
|-------------------------------|------|-----------------------------------|-------|----------------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Diagnose                      | 0    | Modulnummer meldet Diagnose Daten |       |                |       |                                |                                |                                |                                |
|                               | 1    | Austauschstation                  | -     | Diagnose aktiv | -     | -                              | -                              | -                              | -                              |
| Steckplatz 1<br>(ref. Byte 0) | 2    | -                                 | -     | -              | -     | Überstrom DO<br>1 <sub>3</sub> | Überstrom DO<br>1 <sub>2</sub> | Überstrom DO<br>1 <sub>1</sub> | Überstrom DO<br>1 <sub>0</sub> |
|                               | 3    | -                                 | -     | -              | -     | -                              | -                              | -                              | -                              |
| OUTPUT                        | BYTE | Bit 7                             | Bit 6 | Bit 5          | Bit 4 | Bit 3                          | Bit 2                          | Bit 1                          | Bit 0                          |
|                               | 0    | -                                 | -     | -              | -     | DO 1 <sub>3</sub>              | DO 1 <sub>2</sub>              | DO 1 <sub>1</sub>              | DO 1 <sub>0</sub>              |
|                               | 1    | -                                 | -     | -              | -     | -                              | -                              | -                              | -                              |