

# › em4

## em4 remote

### em4 remote 2G

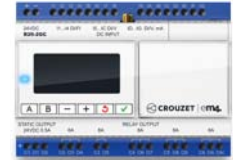
- › All in one nanoPLC including remote management and remote maintenance with GPRS interface, for use with 2G networks
- › Monitor and control remotely your application, from a single installation to a fleet of machine
- › Save time in designing your application using the most intuitive graphical function block language of the market
- › Measure accurately your high end industrial sensors with the embedded configurable analog inputs (including 4-20 mA)
- › Integrate easily one of our three high tech designs in your machine
- › Adapt your application along the way of its lifecycle thanks to the enhanced controlling performances



em4 remote - Robust



em4 remote - Glossy black



em4 remote - Glossy white

| Specific characteristics                               |  |  |                |
|--|--|--|----------------|
| Part number  | 88 981 152   | 88 981 153   | 88 981 154     |
| Type   | B26-2GC  |  |                |
| Inputs   | 16 digital inputs (including 4 High Speed, 8 analog 0-10 V / potentiometers and 4 analog 0-10 V / 4-20 mA)                               |  |                |
| Outputs  | 10 digital outputs (including 2 solid states 0.5 A PWM, 2 relays 6 A and 6 relays 8 A)   |  |                |
| Supply   | 24 VDC   |  |                |
| Finish   | Robust   | Glossy black   | Glossy white   |
| On front panel color                                   | Black RAL 9011   |  | White RAL 9003 |
| On terminal block color                                | Blue RAL 5017  |  |                |
| Protection rating<br>(in accordance with IEC/EN 60529) | IP 50 on front panel<br>IP 20 on terminal block  | IP 40 on front panel<br>IP 20 on terminal block  |                |
| Weight   | Without packing: 350 g<br>With packing: 400 g  | Without packing: 345 g<br>With packing: 395 g  |                |
| Dimensions   | Without packing:<br>124.6 x 90 x 62.6 mm /<br>4.91 x 3.54 x 2.46 inch<br>With packing:<br>148 x 103 x 65 mm /<br>5.83 x 4.06 x 2.56 inch | Without packing:<br>124.6 x 90 x 60.4 mm / 4.91 x 3.54 x 2.38 inch<br>With packing:<br>148 x 103 x 65 mm / 5.83 x 4.06 x 2.56 inch |                |
| R&TTE Directive  | 1999/5/EC  |  |                |
| Standards of North American type approval              | US-Federal Communications Commission (FCC)   |  |                |
| Frequency range GSM 900                                | 880 - 960 MHz  |  |                |
| Frequency range GSM 1800                               | 1710 - 1880 MHz  |  |                |
| Frequency range GSM 850                                | 824 - 894 MHz  |  |                |
| Frequency range GSM 1900                               | 1850 - 1990 MHz  |  |                |
| Antenna: impedance                                     | 50 Ω   |  |                |
| Antenna: input power                                   | > 2 W  |  |                |
| Antenna: V.S.W.R                                       | < 2:1 recommended<br>< 3:1 acceptable  |  |                |
| Antenna: return loss                                   | S11 < - 10 dB recommended<br>S11 < - 6 dB acceptable   |  |                |
| Antenna: connector                                     | RP SMA : SMA Female Reverse Polarity   |  |                |

| General characteristics  |   |
|--|---|
| Products certification (in accordance with IEC/EN 60529)                     | CE, cULus Listed  |
| Conformity with the low voltage directive (in accordance with BT 2006/95/EC) | IEC/EN 61131-2 (Open equipment)   |
| Conformity with the EMC directive (in accordance with 2004/108/EC)           | IEC/EN 61000-6-1 (Residential, commercial and light-industrial environments)<br>IEC/EN 61000-6-2 (Industrial)<br>IEC/EN 61000-6-3 (Residential, commercial and light-industrial environments)<br>IEC/EN 61000-6-4 (Industrial)  |
| Earthing   | None  |
| Overvoltage category   | 3 in accordance with IEC/EN 60664-1   |
| Pollution  | Degree: 2 in accordance with IEC/EN 61131-2   |
| Maximum utilization altitude   | Operation: 2000 m<br>Transport: 3000 m  |
| Mechanical resistance  | Immunity to vibrations IEC/EN 60068-2-6, Fc test<br>Immunity to shock IEC/EN 60068-2-27, Ea test  |
| Resistance to electrostatic discharge  | Immunity to ESD IEC/EN 61000-4-2, level 3   |
| Resistance to HF interference (Immunity)                                     | Immunity to radiated electrostatic fields IEC/EN 61000-4-3, level 3<br>Immunity to fast transients (burst immunity) IEC/EN 61000-4-4, level 3<br>Immunity to shock waves IEC/EN 61000-4-5<br>Radio frequency in common mode IEC/EN 61000-4-6, level 3   |
| Conducted and radiated emissions (in accordance with EN 55022/11 group 1)    | Class B   |
| Operation temperature  | -20°C (-4°F) → +60°C (140°F) (+40°C (104°F) in a non-ventilated enclosure)  |
| Storage temperature  | -40°C (-40°F) → +80°C (176°F)   |
| Relative humidity  | 95% max. (no condensation or dripping water)  |
| Screw terminals connection capacity  | Flexible wire with ferrule: 1 conductor: 0.2 to 2.5 mm <sup>2</sup> (AWG 24-14)<br>Flexible wire with ferrule: 2 conductors: 0.2 to 0.75 mm <sup>2</sup> (AWG 24-18)<br>Rigid wire: 1 conductor: 0.2 to 2.5 mm <sup>2</sup> (AWG 24-14)<br>Rigid wire: 2 conductors: 0.2 to 0.75 mm <sup>2</sup> (AWG 24-18)<br>Tightening torque: 0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)<br>Stripping length: 6 mm |

| Processing characteristics                  |  |
|---|--|
| LCD display                                 | Display with 4 lines of 18 characters  |
| Programming method                          | FBD (Function Block Diagram), including SFC (Sequential Function Chart, Grafcet)   |
| Program size                                | Function blocks: typically 1000 blocks<br>Macro blocks: 64 max. (256 blocks per macro)   |
| Program memory                              | Flash  |
| Removable memory                            | N.A  |
| Data memory                                 | 2 k octets   |
| Backup time (in the event of power failure) | Program and settings in the controller: 10 years<br>Data memory: 10 years  |
| Data backup                                 | Data backup in the flash memory is guaranteed if the product is powered on more than 10 seconds  |
| Cycle time                                  | From 2 ms to 90 ms, default value: 10 ms   |
| Clock data retention                        | 10 years (lithium battery) at 25°C (77°F)  |
| Clock drift                                 | Drift < 12 min/year (at 25°C (77°F))<br>6 s / month (at 25°C (77°F) with user-definable correction of drift).<br>Synchronizable by network   |
| Timer block accuracy                        | 0.5 % +/- 2 cycle time   |
| Start up time on power up                   | < 3 s base alone, < 1.5 s base + 2 expansions + accessory interface (USB or Modbus RS485)  |
| Self test                                   | Test firmware integrity (checksum memory)<br>Stability of the internal power supply<br>Check the conformity of the em4 device configuration with the configuration in the application program. |

| Supply                                 |  |
|--|--|
| Nominal voltage                        | 24 VDC (-15% / +20%)                                 |
| Operating limits                       | 20.4 - 28.8 VDC                                      |
| Immunity from micro power cuts         | ≤ 1 ms (repetition 20 times)                         |
| Max. absorbed power                    | 5W @ 24 VDC, 6.5 W @ 28.8 VDC, - 0.3 W backlight OFF |
| Protection against polarity inversions | Yes  |

### Inputs

#### Digital and high speed digital inputs 24 VDC - 4 inputs from I1 to I4

| Input used as digital input               |   |
|---|---|
| Input voltage                             | 24 VDC (-15% / +20%)                                |
| Input current                             | 1.8 mA @ 20.4 V<br>2.1 mA @ 24 V<br>2.5 mA @ 28.8 V |
| Input impedance                           | 11.6 kΩ   |
| Logic 1 voltage threshold                 | ≥ 15 VDC  |
| Making current at logic state 1           | ≥ 1.3 mA  |
| Logic 0 voltage threshold                 | ≤ 10 VDC  |
| Release current at logic state 1          | ≤ 0.8 mA  |
| Response time                             | 1 to 2 cycle times                                  |
| Sensor type                               | Contact or 3-wire PNP                               |
| Conforming to IEC/EN 61131-2              | Type 1  |
| Input type                                | Resistive   |
| Isolation between power supply and inputs | None  |
| Isolation between inputs                  | None  |
| Protection against polarity inversions    | Yes   |
| Status indicator                          | On LCD screen                                       |
| Cable length                              | ≤ 100 m   |

| Input used as high speed digital input |   |
|--|---|
| Maximum counting frequency             | 3 channels encoder (I1, I2, I3): 20 kHz*<br>2 independent counters (I1, I2) (I3, I4) (Cumul, IND, DIR): 2 channels: 40 kHz*,<br>4 channels: 20 kHz*,<br>2 independent counters (I1, I2) (I3, I4) (PH, PH2): 2/4 channels: 20 kHz*<br>4 independent counters (I1, I2, I3, I4) (Up/Down) : 1 channel: 60 kHz*, 2 channels:<br>40 kHz*, > 2 channels: 20 kHz*<br>* with a time cycle ≤ 10 ms and a ton / toff = 50% +/- 5%, level 0 < 2V and level 1 > 20,4V |
| Other functions                        | 4 chronometers (I1, I2, I3, I4 )<br>4 tachometers (I1, I2, I3, I4 )   |
| Cable length                           | ≤ 3 m with shielded twisted cable   |

#### Digital 24 VDC and analog inputs 12 bits / 28.8 V - potentiometer - 8 inputs from I5 to IC

| Input used as digital input               |   |
|---|---|
| Input voltage                             | 24 VDC (-15% / +20%)                                |
| Input current                             | 1.8 mA @ 20.4 V<br>2.1 mA @ 24 V<br>2.5 mA @ 28.8 V |
| Input impedance                           | 11.6 kΩ   |
| Logic 1 voltage threshold                 | ≥ 11 VDC  |
| Making current at logic state 1           | ≥ 1 mA  |
| Logic 0 voltage threshold                 | ≤ 9 VDC   |
| Release current at logic state 1          | ≤ 0.7 mA  |
| Response time                             | 1 to 2 cycle times                                  |
| Sensor type                               | Contact or 3-wire PNP                               |
| Conforming to IEC/EN 61131-2              | Type 1  |
| Input type                                | Resistive   |
| Isolation between power supply and inputs | None  |
| Isolation between inputs                  | None  |
| Protection against polarity inversions    | Yes   |
| Status indicator                          | On LCD screen                                       |
| Cable length                              | ≤ 100 m   |

| <b>Input used as analog input</b>  |   |
|--|---|
| Measuring range  | 0 → 10 V or 0 → V power supply  |
| Input impedance  | 11.6 kΩ   |
| Maximum value without destruction  | 28.8 VDC max  |
| Input type   | Common mode   |
| Resolution   | 12 bit at maximum input voltage (10.5 bit at 10V)                                 |
| Value of LSB   | 7.03 mV   |
| Conversion time  | Controller cycle time   |
| Maximum error in 0-10V mode  | +/- 1.1 % of full scale at 25°C (77°F)<br>+/- 1.6 % of full scale at 55°C (131°F) |
| Maximum error in 0-V power supply mode   | +/- 2 % of full scale at 25°C (77°F)<br>+/- 3 % of full scale at 55°C (131°F)     |
| Repeat accuracy at 55°C (131°F)  | +/- 0.5 %   |
| Isolation between analog channel and power supply  | None  |
| Protection against polarity inversions   | Yes   |
| Potentiometer control  | 2.2 kΩ / 0.5 W (recommended), 10 KΩ max.  |
| Cable length   | ≤ 10 m with shielded twisted cable (sensor not isolated)                          |
| <b>Digital 24 VDC and analog inputs 12 bits / 10 V &amp; 11 bits / 0-20 mA- potentiometer - 4 inputs from ID to IG</b> |   |
| <b>Input used as digital input (power off state)</b>   |   |
| Input voltage  | 24 VDC (-15% / +20%)  |
| Input current  | 1.5 mA @ 20.4 V<br>1.7 mA @ 24 V<br>2.1 mA @ 28.8 V                               |
| Input impedance  | 13.9 kΩ   |
| Logic 1 voltage threshold  | ≥ 11 VDC  |
| Making current at logic state 1  | ≥ 0.8 mA  |
| Logic 0 voltage threshold  | ≤ 8 VDC   |
| Release current at logic state 1   | ≤ 0.5 mA  |
| Response time  | 1 to 2 cycle times  |
| Sensor type  | Contact or 3-wire PNP   |
| Conforming to IEC/EN 61131-2   | Type 1  |
| Input type   | Resistive   |
| Isolation between power supply and inputs  | None  |
| Isolation between inputs   | None  |
| Protection against polarity inversions   | No  |
| Status indicator   | On LCD screen   |
| Cable length   | ≤ 100 m   |
| <b>Input used as 0-10 V analog input</b>   |   |
| Measuring range  | 0 → 10 V  |
| Input impedance  | 13.9 kΩ   |
| Maximum value without destruction  | 28.8 VDC max  |
| Input type   | Common mode   |
| Resolution   | 12 bit / 10V  |
| Value of LSB   | 2.45 mV   |
| Conversion time  | Controller cycle time   |
| Maximum error at 25°C (77°F)   | +/- 0.8 % of full scale   |
| Maximum error at 55°C (131°F)  | +/- 1.2 % of full scale   |
| Repeat accuracy at 55°C (131°F)  | +/- 0.5 %   |
| Isolation between analog channel and power supply  | None  |
| Protection against polarity inversions   | Yes for voltage ≤ 10 V  |
| Potentiometer control  | 2.2 kΩ / 0.5 W (recommended), 10 KΩ max.  |
| Cable length   | ≤ 10 m with shielded twisted cable (sensor not isolated)                          |

| Input used as 0-20 mA analog input                |   |
|---|---|
| Measuring range                                   | 0 → 20 mA (4 → 20 mA by the application)  |
| Input impedance                                   | 245 Ω   |
| Maximum value without destruction                 | 30 mA max   |
| Input type  | Common mode   |
| Resolution  | 11 bit (normalized at 0 - 2000) / 20 mA   |
| Value of LSB                                      | 10 μA   |
| Conversion time                                   | Controller cycle time   |
| Maximum error at 25°C (77°F)                      | +/- 1.2 % of full scale   |
| Maximum error at 55°C (131°F)                     | +/- 1.7 % of full scale   |
| Repeat accuracy at 55°C (131°F)                   | +/- 0.5 %   |
| Isolation between analog channel and power supply | None  |
| Protection against polarity inversions            | Yes   |
| Overvoltage protection                            | Yes If the input voltage is > 7 V, this one is automatically switched on 0-10V configuration. |
| Cable length                                      | ≤ 30 m with shielded twisted cable (sensor not isolated)                                      |

| Outputs  |  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
|--|--|--------|---------|--------|-------|------------------|---|---|----|---|---|----|-------------|---|---|----|---|---|-----|--------------|---|---|---|---|---|---|-------------------------------|---|---|----|---|---|-----|
| Digital / PWM solid state output - 2 solid state outputs from O1 to O2 |  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Output used as digital output  |  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Breaking voltage   | 10 → 28.8 VDC  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Nominal voltage  | 12 / 24 VDC  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Nominal current  | 0.5 A on resistive load @ 25°C (77°F)  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Max. breaking current  | 0.625 A  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Non repetitive overload current  | 1 A  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Maximum breaking current in the common                                 | 1 A  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Voltage drop   | < 1 V for I = 0.5 A  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Response time  | Make = 1 cycle time + 30 μs typical<br>Release = 1 cycle time + 40 μs typical  |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Built-in protections   | Against overloads and short-circuits: Yes<br>Against over voltages (*): Yes<br>Against inversions of power supply: Yes<br>(* In the absence of a potential free contact between the output of the programmable logic controller and the load   |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Minimum load   | 1 mA   |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Galvanic isolation   | No   |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Cable length   | ≤ 10 m   |        |         |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Truth table of the default   | <table border="1"> <thead> <tr> <th></th> <th>Command</th> <th>Output</th> <th>Fault</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Normal condition</td> <td>0</td> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>1</td> <td>No</td> </tr> <tr> <td rowspan="2">Overheating</td> <td>0</td> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>0</td> <td>Yes</td> </tr> <tr> <td rowspan="2">Underpowered</td> <td>0</td> <td>0</td> <td>X</td> </tr> <tr> <td>1</td> <td>0</td> <td>X</td> </tr> <tr> <td rowspan="2">Short circuit (current limit)</td> <td>0</td> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>0</td> <td>Yes</td> </tr> </tbody> </table> |        | Command | Output | Fault | Normal condition | 0 | 0 | No | 1 | 1 | No | Overheating | 0 | 0 | No | 1 | 0 | Yes | Underpowered | 0 | 0 | X | 1 | 0 | X | Short circuit (current limit) | 0 | 0 | No | 1 | 0 | Yes |
|  | Command  | Output | Fault   |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Normal condition   | 0  | 0      | No      |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
|  | 1  | 1      | No      |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Overheating  | 0  | 0      | No      |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
|  | 1  | 0      | Yes     |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Underpowered   | 0  | 0      | X       |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
|  | 1  | 0      | X       |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
| Short circuit (current limit)  | 0  | 0      | No      |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |
|  | 1  | 0      | Yes     |        |       |                  |   |   |    |   |   |    |             |   |   |    |   |   |     |              |   |   |   |   |   |   |                               |   |   |    |   |   |     |

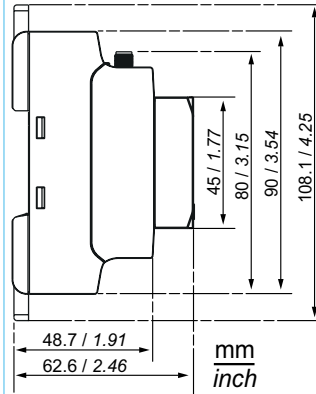
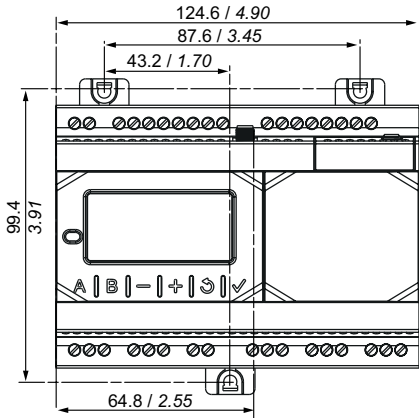
| Output used as PWM output                                |  |
|--|--|
| PWM frequency  | 14.11 Hz ; 56.45 Hz ; 112.90 Hz ; 225.80 Hz ; 451.59 Hz ; 1758.24 Hz |
| PWM cyclic ratio   | 0 → 100 % 100 steps  |
| PWM Max. error   | ≤ 2 % (from 10 % → 90 %)   |
| Status indicator   | On LCD screen  |
| Cable length   | ≤ 10 m with shielded twisted cable                                   |
| Distance between the power source and the static outputs | ≤ 30 m   |

| 6 A relay output - 2 outputs from O3 to O4        |  |
|---|--|
| Breaking voltage                                  | 250 VAC max  |
| Breaking current                                  | 6 A  |
| Maximum breaking current in the common            | IEC @ 25°C (77°F): 12 A<br>IEC @ 60°C (140°F) or UL: 10 A  |
| Mechanical life                                   | 5 000 000 operations (cycles)  |
| Electrical durability for 50 000 operating cycles | 24 VDC tau = 0 ms: 6 A, tau = 7 ms: 3 A, tau = 15 ms: 1.8 A<br>Usage category DC-12: 24 V, 6 A<br>Usage category DC-14: 24 V, 1.8 A<br>250 VAC cos phi = 1: 6 A, cos phi = 0.7: 5 A, cos phi = 0.4: 2.5 A<br>Usage category AC-12: 250 V, 6 A<br>Usage category AC-13: 250 V, 5 A<br>Usage category AC-15: 250 V, 2 A      |
| Minimum switching capacity                        | 100 mA (at minimum voltage of 12 V)  |
| Maximum operating rate                            | Off load: 10 Hz<br>At operating current: 0.1 Hz  |
| Voltage for withstanding shocks                   | In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV   |
| Response time                                     | Make = 8 ms max<br>Release = 4 ms max  |
| Built-in protections                              | Against short-circuits: None<br>Against over voltages and overload: None   |
| Status indicator                                  | On LCD screen  |
| Cable length                                      | ≤ 30 m   |
| 8 A relay output - 6 outputs from O5 to OA        |  |
| Breaking voltage                                  | 250 VAC max  |
| Breaking current                                  | 8 A, ≥ 55°C: 6 A   |
| Maximum breaking current in the common            | IEC @ 25°C (77°F): C3, C6: 8 A ; C4, C5: 16 A<br>IEC @ 60°C (140°F) or UL: C3, C6: 8 A ; C4, C5: 10 A  |
| Mechanical life                                   | 20 000 000 operations (cycles)   |
| Electrical durability for 50 000 operating cycles | 24 VDC tau = 0 ms: 8 A, tau = 7 ms: 3 A, tau = 15 ms: 1.5 A<br>Usage category DC-12: 24 V, 8 A<br>Usage category DC-14: 24 V, 1.5 A<br>250 VAC cos phi = 1: 8 A, cos phi = 0.7: 4.75 A, cos phi = 0.4: 3 A<br>Usage category AC-12: 250 V, 8 A<br>Usage category AC-13: 250 V, 4.3 A<br>Usage category AC-15: 250 V, 1.5 A |
| Minimum switching capacity                        | 100 mA (at minimum voltage of 12 V)  |
| Maximum operating rate                            | Off load: 10 Hz<br>At operating current: 0.1 Hz  |
| Voltage for withstanding shocks                   | In accordance with IEC/EN 60947-1 and IEC/EN 60664-1: 4 kV   |
| Response time                                     | Make = 8 ms max<br>Release = 4 ms max  |
| Built-in protections                              | Against short-circuits: None<br>Against over voltages and overload: None   |
| Status indicator                                  | On LCD screen  |
| Cable length                                      | ≤ 30 m   |

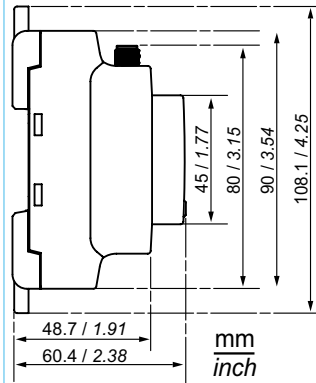
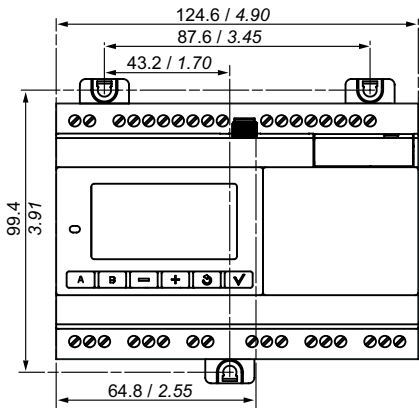
Diagrams

Dimensions

B26 2GC Robust



B26 2GC Glossy

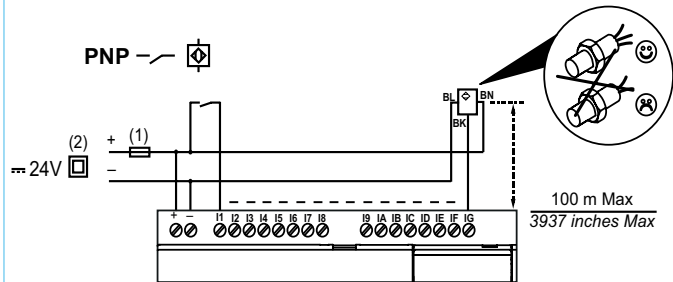
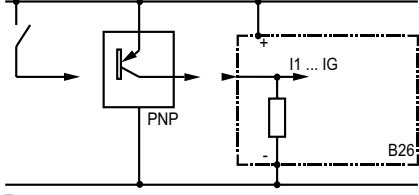


Connections

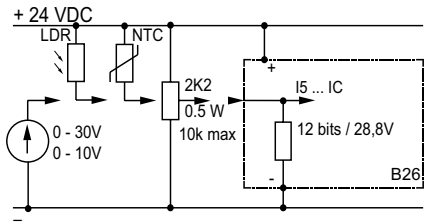
Inputs

I1 ... IG 0/1

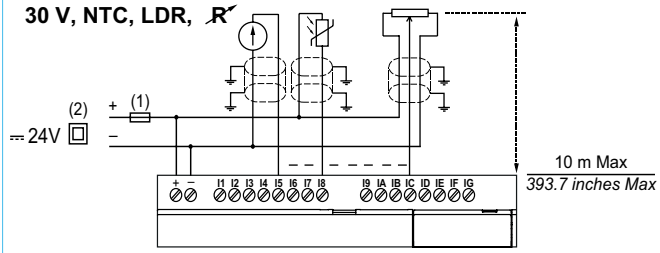
+ 24 VDC



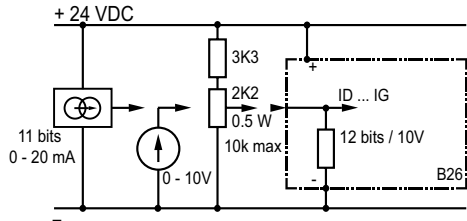
I5 ... IC U



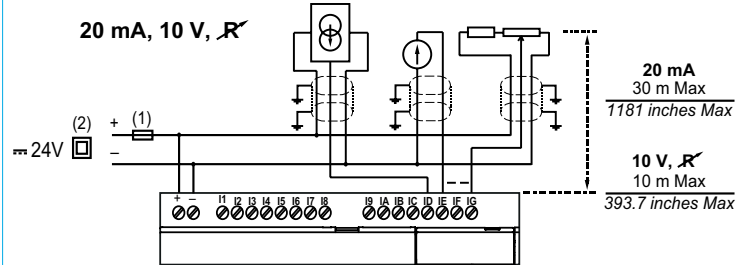
30 V, NTC, LDR, R



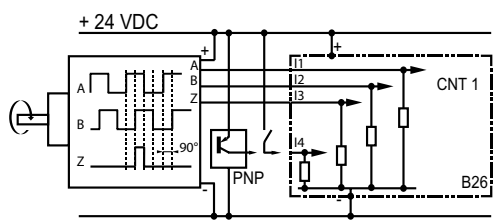
ID ... IG U / I



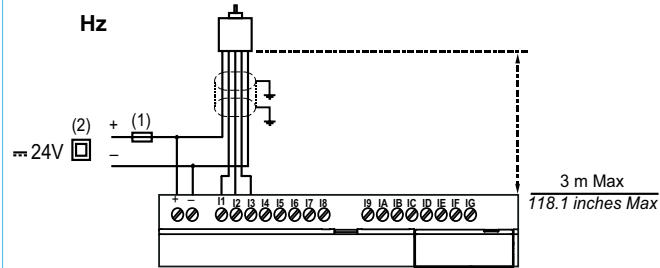
20 mA, 10 V, R



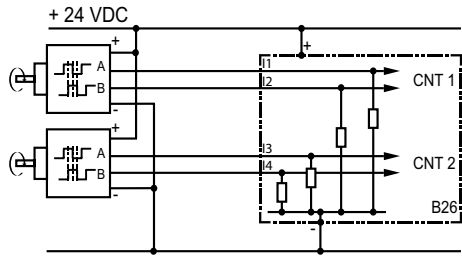
I1 ... I4 2604



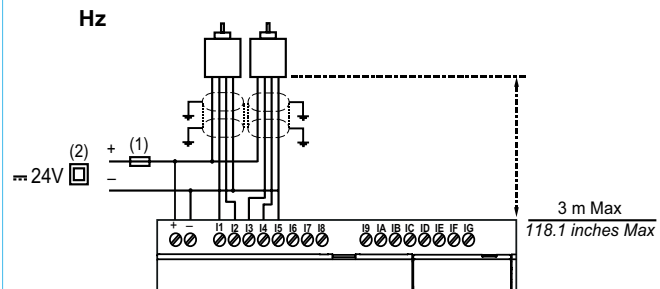
Hz



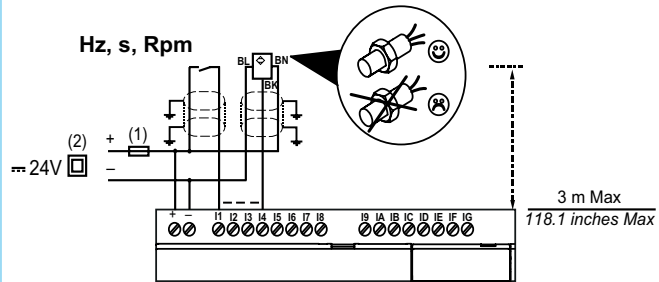
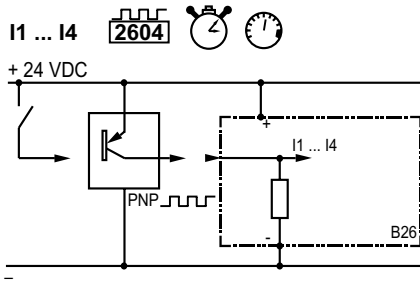
I1 ... I4 2604



Hz



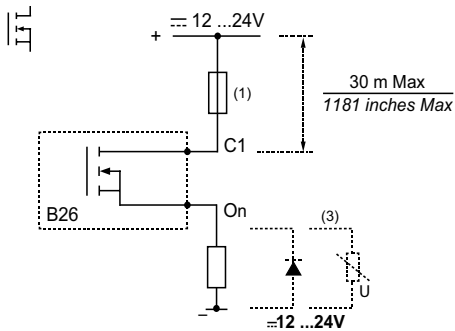




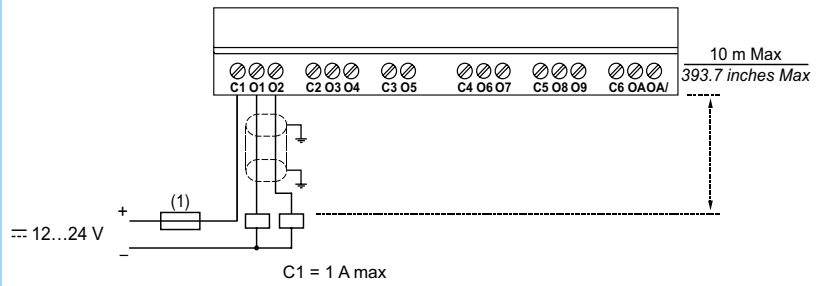
- (1) 1 A (UL248) quick-blowing fuse, circuit-breaker or circuit protector (US)
- (2) Isolating source

Outputs

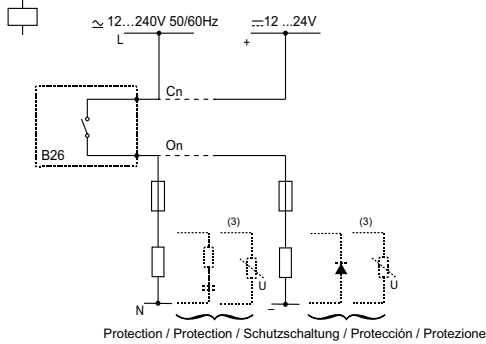
O1 & O2



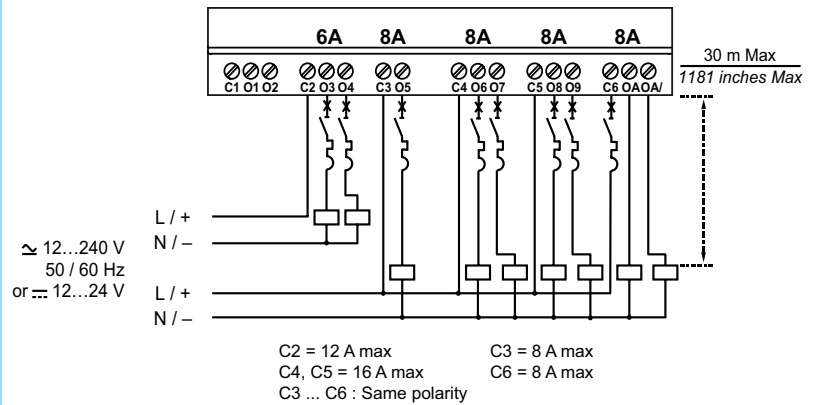
0,5 A



O3 ... OA



6 A, 8 A



(3) Inductive load

I/O installations

