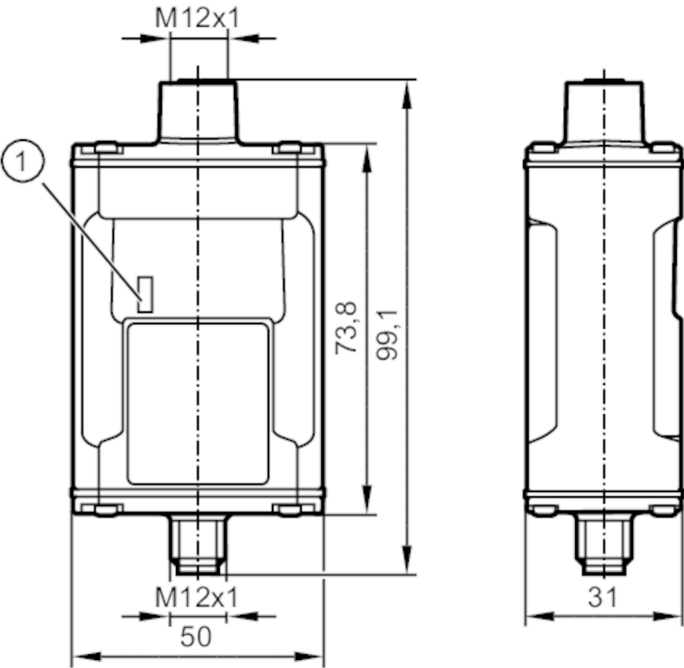


DP1615



Control unit for RGBW LED strips

Controller RGBW-LED IP67



1 operation



| Electrical data                 |                                                           |                                                     |
|---------------------------------|-----------------------------------------------------------|-----------------------------------------------------|
| Operating voltage               | [V]                                                       | 21.6...26.4 DC; (to SELV/PELV)                      |
| Nominal voltage DC              | [V]                                                       | 24                                                  |
| Current consumption             | [mA]                                                      | < 1230                                              |
| Max. current load total         | [A]                                                       | 1.2                                                 |
| Inputs / outputs                |                                                           |                                                     |
| Number of inputs and outputs    | Number of digital inputs: 3; Number of digital outputs: 4 |                                                     |
| Inputs                          |                                                           |                                                     |
| Number of digital inputs        | 3                                                         |                                                     |
| Switching level high            | [V]                                                       | 11...26.4                                           |
| Switching level low             | [V]                                                       | 0...5                                               |
| Outputs                         |                                                           |                                                     |
| Output signal                   | switching signal                                          |                                                     |
| Number of digital outputs       | 4                                                         |                                                     |
| Max. current load per output    | [mA]                                                      | 400; 640; (400 mA: red; green; blue; 640 mA: white) |
| Max. current load outputs total | [A]                                                       | 1.2                                                 |
| Short-circuit proof             | yes                                                       |                                                     |
| Interfaces                      |                                                           |                                                     |
| Communication interface         | IO-Link                                                   |                                                     |
| Transmission type               | COM2 (38,4 kBaud)                                         |                                                     |
| IO-Link revision                | 1.1                                                       |                                                     |



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|                                                |                                                                                                                             |                                                                        |                              |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------|
| SDCI standard                                  |                                                                                                                             | IEC 61131-9                                                            |                              |
| Profiles                                       |                                                                                                                             | Function class                                                         | Designation                  |
|                                                |                                                                                                                             | 0x4000                                                                 | Identification and Diagnosis |
| SIO mode                                       |                                                                                                                             | yes                                                                    |                              |
| Required master port type                      |                                                                                                                             | A                                                                      |                              |
| Min. process cycle time [ms]                   |                                                                                                                             | 4.2                                                                    |                              |
| Supported DeviceIDs                            |                                                                                                                             | Type of operation                                                      | DeviceID                     |
|                                                |                                                                                                                             | default                                                                | 1474                         |
| Note                                           |                                                                                                                             | For further information please see the IODD PDF file under "Downloads" |                              |
| Operating conditions                           |                                                                                                                             |                                                                        |                              |
| Ambient temperature [°C]                       | -25...60                                                                                                                    |                                                                        |                              |
| Storage temperature [°C]                       | -25...60                                                                                                                    |                                                                        |                              |
| Max. relative air humidity [%]                 | 90; (linearly decreasing to 50 % (40 °C); non condensing)                                                                   |                                                                        |                              |
| Max. height above sea level [m]                | 2000                                                                                                                        |                                                                        |                              |
| Protection                                     | IP 65; IP 67                                                                                                                |                                                                        |                              |
| Pollution degree                               | 2                                                                                                                           |                                                                        |                              |
| Tests / approvals                              |                                                                                                                             |                                                                        |                              |
| EMC                                            | IEC61131-2                                                                                                                  |                                                                        |                              |
| MTTF [years]                                   | 291                                                                                                                         |                                                                        |                              |
| Mechanical data                                |                                                                                                                             |                                                                        |                              |
| Weight [g]                                     | 130.2                                                                                                                       |                                                                        |                              |
| Weight (without accessories and packaging) [g] | 0.001                                                                                                                       |                                                                        |                              |
| Dimensions [mm]                                | 99.1 x 50 x 31                                                                                                              |                                                                        |                              |
| Materials                                      | housing: PA; cover: PA; Sealing cover: TPE                                                                                  |                                                                        |                              |
| Sealing material                               | FKM                                                                                                                         |                                                                        |                              |
| Displays / operating elements                  |                                                                                                                             |                                                                        |                              |
| Display                                        | operation                                                                                                                   | LED, green                                                             |                              |
| Accessories                                    |                                                                                                                             |                                                                        |                              |
| Accessories (optional)                         | mounting clip, E89209                                                                                                       |                                                                        |                              |
| Remarks                                        |                                                                                                                             |                                                                        |                              |
| Remarks                                        | Please observe the permissible voltage ranges of the connected devices, as these may differ from the IO-Link specification. |                                                                        |                              |
|                                                | For further information please see the operating instructions.                                                              |                                                                        |                              |
| Pack quantity                                  | 1 pcs.                                                                                                                      |                                                                        |                              |

# DP1615

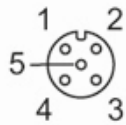


## Control unit for RGBW LED strips

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### Electrical connection - socket

Connector: 1 x M12; coding: A; Sealing: FKM



|        |               |
|--------|---------------|
| 1 OUT1 | DO1 LED red   |
| 2 OUT2 | DO2 LED green |
| 3 L-   | GND           |
| 4 OUT3 | DO3 LED white |
| 5 OUT4 | DO4 LED blue  |

### Electrical connection - plug

Connector: 1 x M12; coding: A



### IO-Link operation

|       |     |
|-------|-----|
| 1 L+  |     |
| 2 L+  |     |
| 3 L-  | GND |
| 4 C/Q |     |

### SIO operation

|            |                                |
|------------|--------------------------------|
| 1 IN1 / L+ | DI1 / supply voltage Setting C |
| 2 IN2 / L+ | DI2 / supply voltage Setting B |
| 3 L-       | GND                            |
| 4 IN3 / L+ | DI3 / supply voltage Setting A |