

# E43410



## IO-Link data splitter

IO-LINK DATA SPLITTER NPN



| Product characteristics            |                                                                                                                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Number of inputs and outputs       | Number of digital outputs: 1                                                                                   |
| Application                        |                                                                                                                |
| Special feature                    | Gold-plated contacts                                                                                           |
| Application                        | for retrofitting of existing IO-Link systems; for systems without IO-Link capabilities                         |
| Electrical data                    |                                                                                                                |
| Operating voltage [V]              | 18...30 DC; (on the master side; on the controller / system: 20...30 DC)                                       |
| Nominal voltage DC [V]             | 24                                                                                                             |
| Current consumption [mA]           | < 17; (both sides)                                                                                             |
| Protection class                   | III                                                                                                            |
| Reverse polarity protection        | yes; (on the master side)                                                                                      |
| Power-on delay time [s]            | < 2; (for communication; response time switching signal: response time device plus IO-Link process cycle time) |
| Inputs / outputs                   |                                                                                                                |
| Total number of inputs and outputs | 1; (on the controller / system)                                                                                |
| Number of inputs and outputs       | Number of digital outputs: 1                                                                                   |
| Outputs                            |                                                                                                                |
| Output signal                      | switching signal; IO-Link                                                                                      |
| Electrical design                  | NPN                                                                                                            |
| Number of digital outputs          | 1                                                                                                              |



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|                                                      |                                 |  |
|------------------------------------------------------|---------------------------------|--|
| Output function                                      | normally open / normally closed |  |
| Max. voltage drop switching output DC [V]            | 2.5                             |  |
| Permanent current rating of switching output DC [mA] | 200                             |  |
| Type of short-circuit protection                     | pulsed                          |  |
| Short-circuit proof                                  | yes                             |  |
| Overload protection                                  | yes                             |  |

## Interfaces

|                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| Communication interface | IO-Link                  |                 |
| Supported DeviceIDs     | <b>Type of operation</b> | <b>DeviceID</b> |
|                         | IO-Link Device           | 1107            |

|                              |                               |                              |
|------------------------------|-------------------------------|------------------------------|
| IO-Link Device               |                               |                              |
| Note on interfaces           | connection to IO-Link masters |                              |
| Transmission type            | COM2 (38,4 kBaud)             |                              |
| IO-Link revision             | 1.1                           |                              |
| SDCI standard                | IEC 61131-9                   |                              |
| Profiles                     | Common - I&D                  | Identification and Diagnosis |
| SIO mode                     | yes                           |                              |
| Required master port type    | A                             |                              |
| Min. process cycle time [ms] | 4.2                           |                              |

|                               |                                                         |  |
|-------------------------------|---------------------------------------------------------|--|
| IO-Link Master                |                                                         |  |
| Note on interfaces            | connection to IO-Link devices                           |  |
| Unterstützte Masterportklasse | A / B                                                   |  |
| Transmission type             | COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud) |  |
| IO-Link revision              | 1.0; 1.1                                                |  |
| SDCI standard                 | IEC 61131-9                                             |  |

## Operating conditions

|                          |          |  |
|--------------------------|----------|--|
| Ambient temperature [°C] | -25...60 |  |
| Storage temperature [°C] | -25...70 |  |
| Protection               | IP 67    |  |

## Tests / approvals

|                      |                   |                                |
|----------------------|-------------------|--------------------------------|
| EMC                  | DIN EN 61000-6-2  |                                |
|                      | DIN EN 61000-6-4  | in plastic or open metal tanks |
| Shock resistance     | DIN EN 60068-2-27 | 15 g (6 ms)                    |
| Vibration resistance | DIN EN 60068-2-6  | 2 g (10...150 Hz)              |
| MTTF [years]         | 307               |                                |
| UL approval          | Ta                | max. 55 °C                     |
|                      | File number UL    | E205959                        |

## Mechanical data

|            |                                                                       |  |
|------------|-----------------------------------------------------------------------|--|
| Weight [g] | 89                                                                    |  |
| Materials  | stainless steel (316L/1.4404); brass (2.0401); PBT; PA; Sealing: FKM; |  |

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### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching output | 1 x LED, yellow |
|         | operation        | 1 x LED, green  |
|         | IO-Link          | 1 x LED, yellow |

### Accessories

|                    |                              |
|--------------------|------------------------------|
| Accessory required | Y connection cable 1, EVC843 |
|--------------------|------------------------------|

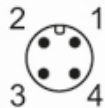
### Remarks

|               |                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks       | For information on the maximum cable length please refer to the operating instructions.                                                   |
|               | To ensure the function according to technical datasheet and operating instructions the use of the following article is imperative: EVC843 |
|               | the device complies with overvoltage category II                                                                                          |
| Pack quantity | 1 pcs.                                                                                                                                    |

### Electrical connection

#### Electrical connection - plug

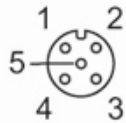
Connector: 1 x M12; coding: A; Contacts: gold-plated



|   |            |
|---|------------|
| 1 | L+         |
| 2 | NC         |
| 3 | L-         |
| 4 | C: IO-Link |

#### Electrical connection - socket

Connector: 1 x M12; coding: A; Contacts: gold-plated



|   |                                   |
|---|-----------------------------------|
| 1 | L+                                |
| 2 | C/Q: IO-Link Master               |
| 3 | L-                                |
| 4 | OUT1: switching output or IO-Link |
| 5 | NC                                |

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### Electrical connection

#### Connection

