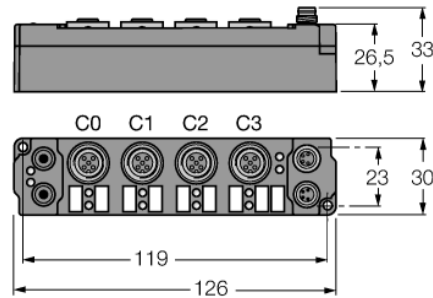
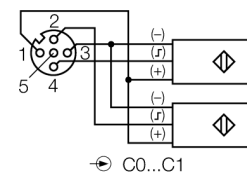


# piconet Extension Module for IP-Link 4 Digital PNP Inputs Filter 0.2 ms 4 digital outputs 2 A SNNE-0404D-0006

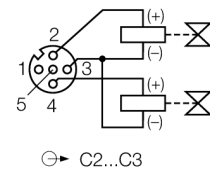


- Direct connection to the IP link
- Fibre-glass reinforced housing
- Encapsulated module electronics
- Metal connector
- Degree of protection IP67

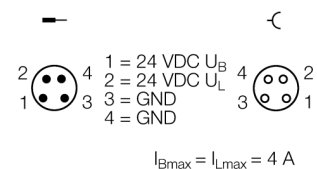
## M12 × 1 Input



## M12 × 1 Output



## M8 × 1 Power Supply



|                               |                                      |
|-------------------------------|--------------------------------------|
| Type                          | SNNE-0404D-0006                      |
| ID                            | 6824196                              |
| Number of channels            | 8                                    |
| Operating / load voltage      | 20...29 VDC                          |
| Operating current             | ≤ 25 mA                              |
| Fibre-optic length            | ≤ 15 m                               |
| Number of channels            | 4 digital inputs acc. to EN 61131-2  |
| Input voltage                 | 20...29 VDC via operating voltage    |
| Low-level signal voltage      | -3...5 VDC (EN 61131-2, type 2)      |
| High level signal voltage     | 11...30 VDC (EN 61131-2, type 2)     |
| Input delay                   | 0.2 ms                               |
| Max. input current            | 6 mA                                 |
| Number of channels            | 4 digital outputs acc. to EN 61131-2 |
| Output voltage                | 20...29 VDC from load voltage        |
| Output current per channel    | 2 A (Σ 4 A), short-circuit proof     |
| Load type                     | resistive, inductive, lamp load      |
| Switching frequency           | ≤ 500 Hz                             |
| Simultaneity factor           | 0.5                                  |
| Dimensions (W x L x H)        | 30 x 126 x 26.5 mm                   |
| Vibration test                | Acc. to EN 60068-2-6                 |
| Shock test                    | acc. to DIN EN 60068-2-27            |
| Electromagnetic compatibility | Acc. to EN 61000-6-2/EN 61000-6-4    |
| Protection class              | IP67                                 |
| Approvals                     | CE, cULus                            |

## LEDs

|                         | LED designation | Status green | Status red | Function                                          |
|-------------------------|-----------------|--------------|------------|---------------------------------------------------|
| IP-Link / module status | RUN / ERR (I/O) | flickers/ON  | OFF        | Receiving error-free IP-Link protocols            |
|                         |                 | flickers     | flickers   | Receiving faulty IP-Link protocols                |
|                         |                 | OFF          | flickers   | Receiving faulty IP-Link protocols / system fault |
|                         |                 | OFF          | ON         | No receipt of IP-Link protocols / module error    |
| Inputs                  | 0...3           | OFF          |            | Input inactive (not dampened)                     |
|                         |                 | ON           |            | Input active (dampened)                           |
| Outputs                 | 4...7           | OFF          |            | Output inactive (not switched)                    |
|                         |                 | ON           |            | Output active (switched)                          |
| Power supply            | U <sub>B</sub>  | OFF          |            | Operating voltage U <sub>B</sub> < 18 VDC         |
|                         |                 | ON           |            | Operating voltage U <sub>B</sub> ≥ 18 VDC         |
|                         | U <sub>L</sub>  | OFF          |            | Load voltage U <sub>L</sub> < 18 VDC              |
|                         |                 | ON           |            | Load voltage U <sub>L</sub> ≥ 18 VDC              |

## Data in process image

|                                                                                                                                                                       |        |        | Bit 7                                                                                        | Bit 6 | Bit 5 | Bit 4 | Bit 3                                                                                        | Bit 2 | Bit 1 | Bit 0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------------------------------------------------------------------------------------------|-------|-------|-------|----------------------------------------------------------------------------------------------|-------|-------|-------|
| Coupling module parameter Byte alignment is "disabled" (default) and the previous byte has been completely used.<br>4 bit input data and output data each are mapped. | Input  | Byte 0 | Is used by the physically following bit-oriented extension module connected via the IP Link. |       |       |       | C1P2                                                                                         | C1P4  | C0P2  | C0P4  |
|                                                                                                                                                                       | Output | Byte 0 |                                                                                              |       |       |       | C3P2                                                                                         | C3P4  | C2P2  | C2P4  |
| Coupling module parameter Byte alignment is "disabled" and the previous byte has been used halfway.<br>4 bit input data and output data each are mapped.              | Input  | Byte 0 | C1P2                                                                                         | C1P4  | C0P2  | C0P4  | Is used by the physically preceding bit-oriented extension module connected via the IP Link. |       |       |       |
|                                                                                                                                                                       | Output | Byte 0 | C3P2                                                                                         | C3P4  | C2P2  | C2P4  |                                                                                              |       |       |       |
| Coupling module parameter Byte alignment is activated.<br>1 byte input data and output data each are mapped.                                                          | Input  | Byte 0 | idle                                                                                         | idle  | idle  | idle  | C1P2                                                                                         | C1P4  | C0P2  | C0P4  |
|                                                                                                                                                                       | Output | Byte 0 | C3P2                                                                                         | C3P4  | C2P2  | C2P4  | idle                                                                                         | idle  | idle  | idle  |

C... = Connector no., P... = Pin no.