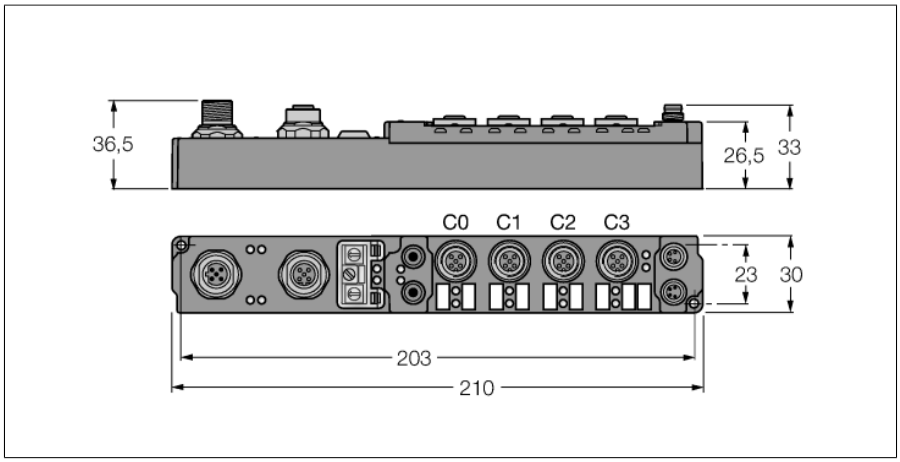
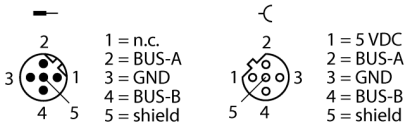
# Moduł łączący piconet do magistrali PROFIBUS-DP
# 4 Digital PNP Inputs Filter 3 ms
# 4 Digital Outputs 0.5 A
# SDPL-0404D-1004

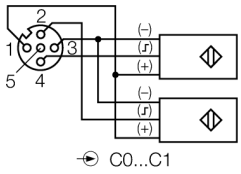



- Configuration interface
- Configurable functions
- Supported via I/O-ASSISTANT 2
- Direct connection to the fieldbus
- Direct connection to the IP link
- Fibre-glass reinforced housing
- Encapsulated module electronics
- Metal connector
- Degree of protection IP67

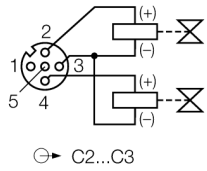
**Złącze magistrali M12 × 1**



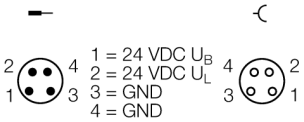

**Wejście M12 × 1**




**Wyjście M12 × 1**




**Zasilanie M8 × 1**




$I_{Bmax} = I_{Lmax} = 4$ A

| | |
|---|---|
| Typ | SDPL-0404D-1004 |
| Nr kat. | 6824451 |
| | |
| Liczba kanałów | 8 |
| Napięcie pracy / obciążenia | 20…29 VDC |
| Prąd pracy | ≤ 100 mA |
| | |
| Prędkość transmisji sieciowej | 9.6 kbps … 12 Mbps |
| Adresowanie sieciowe | 0 to 99 |
| Interfejs serwisowy | parameterisation via I/O-ASSISTANT |
| Izolacja elektryczna | Fieldbus to operational voltage |
| | |
| Fibre-optic length | ≤ 15 m |
| | |
| Liczba kanałów | 4 digital inputs acc. to EN 61131-2 |
| Napięcie wejściowe | 20…29 VDC via operating voltage |
| Napięcie sygnału niskiego poziomu | -3…5 VDC (EN 61131-2, type 2) |
| Sygnał napięciowy wysokiego poziomu | 11…30 VDC (EN 61131-2, type 2) |
| Opóźnienie wejścia | 3 ms |
| Maks. prąd wejścia | 6 mA |
| | |
| Liczba kanałów | 4 digital outputs acc. to EN 61131-2 |
| Napięcie wyjścia | Napięcie obciążenia 20…29 V DC |
| Prąd wyjściowy na kanał | 0.5 A, short-circuit proof |
| Typ obciążenia | resistive, inductive, lamp load |
| Częstotliwość przełączania | ≤ 500 Hz |
| Współczynnik równoczesności | 1 |
| | |
| Dimensions (W x L x H) | 30 x 210 x 26.5 mm |
| Test wibracyjny | Zgodnie z normą EN 60068-2-6 |
| Test przeciążeniowy/wstrząsowy | acc. to DIN EN 60068-2-27 |
| Kompatybilność elektromagnetyczna | Zgodnie z normą EN 61000-6-2/EN 61000-6-4 |
| Stopień ochrony | IP67 |
| Certyfikaty | CE, cULus |

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**LEDs**

| | LED designation | Status green | Status red | Function |
|---|---|---|---|---|
| PROFIBUS-DP | RUN / ERR (PB) | ON | ON | Module waits for communication |
| | | OFF | ON | Module searching for set transmission rate |
| | | OFF | OFF | Module waits for cyclic communication |
| | | ON | flashes | Module has detected transmission rate / start-up fault |
| | | ON | OFF | RUN I/O OFF: DP start-up successful, no data exchange |
| | | ON | OFF | RUN I/O ON: Module is exchanging data |
| 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 | $U_B$ | OFF | | Operating voltage UB < 18 VDC |
| | | ON | | Operating voltage $U_B \geq$ 18 VDC |
| | $U_L$ | OFF | | Load voltage $U_L$ < 18 VDC |
| | | ON | | Load voltage $U_L \geq$ 18 VDC |

**Dane z odwzorowania procesu**

| | | | 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. 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 activated. 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.

**LED status Gateway**

| LED | Color | Status | Description |
|---|---|---|---|
| **RUN/ERR PB** | green | on | Module waiting for communication |
| | red | on | |
| | green | off | Module searching for transmission rate |
| | red | on | |
| | green | off | Module waiting for cyclic communication |
| | red | off | |
| | green | on | Transmission rate found |
| | red | flashing | |
| | green | on | PROFIBUS-DP start-up completed |
| | red | off | |
| **RUN/ERR I/O** | green | off | No data exchange |
| | red | off | |
| | green | on | Module is in cyclic data exchange |
| | red | off | |

**LED status IOs**

| LED | Color | Status | Description |
|---|---|---|---|
| **Inputs** | green | on | High potential at input |
| | | off | Low potential at input |
| **Outputs** | green | on | High potential at output |
| | | off | Low potential at output |

**LED status power supply**

| LED | Color | Status | Description |
|---|---|---|---|
| **UB** | green | on | Operating voltage within the defined tolerances |
| | | off | Operating voltage below the defined tolerances |
| **UL** | green | on | Load voltage within the defined tolerances |
| | | off | Load voltage below the defined tolerances |

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