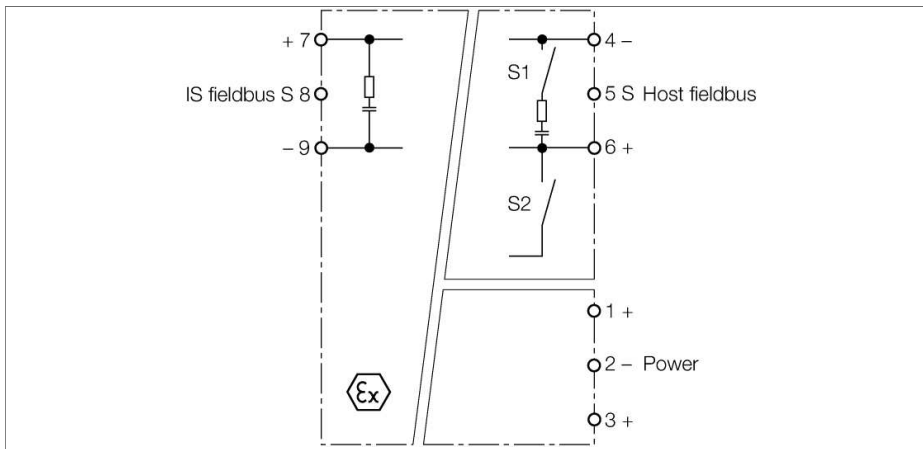


**FOUNDATION™ fieldbus**  
**FISCO Power Supply**  
**RPC49-10120EX**

**TURCK**

Industrial  
Automation



The intrinsically safe power supply RPC49-10120EX transmits the fieldbus signal from a host to an intrinsically safe fieldbus device in the Ex area, zone 2.

The RPC49-10120EX enables integrated transmission between the host and fieldbus connections and thus allows parallel connection of several devices in the fieldbus and accordingly a higher number of field devices in the segment.

Designed to operate in harsh environments and suitable for installation in zone 2, the TURCK power supply RPC49-10120EX expands the boundaries for fieldbus topologies.

The RPC49-10120EX provides up to 120 mA, powering field devices in Gas Group IIC. The device is mounted on DIN rail. It is designed to exploit the very latest developments of the FISCO specification (Fieldbus Intrinsically Safe Concept) concerning the application in explosion hazardous areas. To reap the full potential of digital fieldbus communication without system inherent constraints is thus possible.

The excellent performance and flexibility of the RPC49-10120EX makes it easy to plan, install and mount fieldbus networks in compliance with the 31.25 kbits/s physical layer specification. Moreover, compatibility with the TURCK wiring components and accessories ensures high reliability, low installation costs and high operational safety.

Power supply to the host is procured via a switch making additional power sources needless.



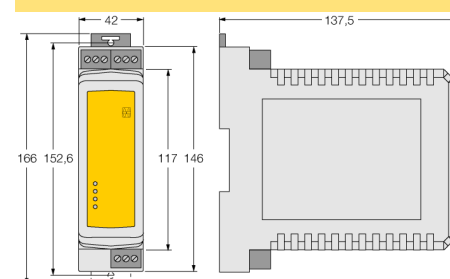
- **FISCO compliant according to IEC TS 60079-27**
- **Protection type: [EEx ib] IIC**
- **mounting possible in zone 2**
- **FISCO power supply for FOUNDATION™ fieldbus**
- **Output current: 120 mA**
- **Fieldbus - Repeater**
- **Temperature range: -40 ...+70°C**

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**Dimensions**



|                                                                |                                                                                                                   |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Type code</b>                                               | RPC49-10120EX                                                                                                     |
| Ident no.                                                      | 6604157                                                                                                           |
| <b>Operating voltage range</b>                                 | 19.2...30 VDC                                                                                                     |
| Current consumption                                            | 235 mA (typ.) 330 mA (max.) at 20 V<br>190 mA (typ.) 265 mA (max.) at 24 V<br>155 mA (typ.) 215 mA (max.) at 30 V |
| Galvanic separation                                            | Input circuit to output circuits and supply voltage 250 V <sub>eff</sub>                                          |
| <b>Output circuits</b>                                         |                                                                                                                   |
| Output current                                                 | ≤ 120 mA                                                                                                          |
| Output voltage                                                 | 12.4 VDC                                                                                                          |
| Short-circuit protection                                       | ≤ 140mA                                                                                                           |
| <b>Indication</b>                                              |                                                                                                                   |
| Operational readiness                                          | 1 x green                                                                                                         |
| Short-circuit message                                          | 1 x red                                                                                                           |
| Bus communication                                              | 2 x yellow                                                                                                        |
| <b>Ex approval acc. to conformity certificate</b>              | BASEEFA 05 ATEX 0127                                                                                              |
| FISCO parameter acc. to IEC 60079-11                           |                                                                                                                   |
| Max. output voltage U <sub>o</sub>                             | ≤ 14 V                                                                                                            |
| Max. output current I <sub>o</sub>                             | ≤ 180 mA                                                                                                          |
| Max. output power P <sub>o</sub>                               | ≤ 2520 mW                                                                                                         |
| External inductance/capacitance L <sub>e</sub> /C <sub>e</sub> | 300 μH / 0.2 μF                                                                                                   |
| Device designation                                             | Ⓔ II (2) GD [EEx ib] IIC<br>Ⓔ II 3 G EEx nA II T4 X<br>FISCO Power Supply                                         |
| <b>Electrical connection</b>                                   | 3 x 3-pole removable terminal blocks, reverse polarity protected, screw connection or tension spring              |
| Terminal cross-section                                         | 2.5 mm <sup>2</sup>                                                                                               |
| <b>Protection class</b>                                        | IP20                                                                                                              |
| Ambient temperature                                            | -40...+70 °C                                                                                                      |
| Housing material                                               | Plastic                                                                                                           |
| Housing color                                                  | black/yellow                                                                                                      |
| Dimensions                                                     | 42x 166x 137.5 mm                                                                                                 |
| Connection mode                                                | snap-fit on DIN rail (DIN 60715)                                                                                  |