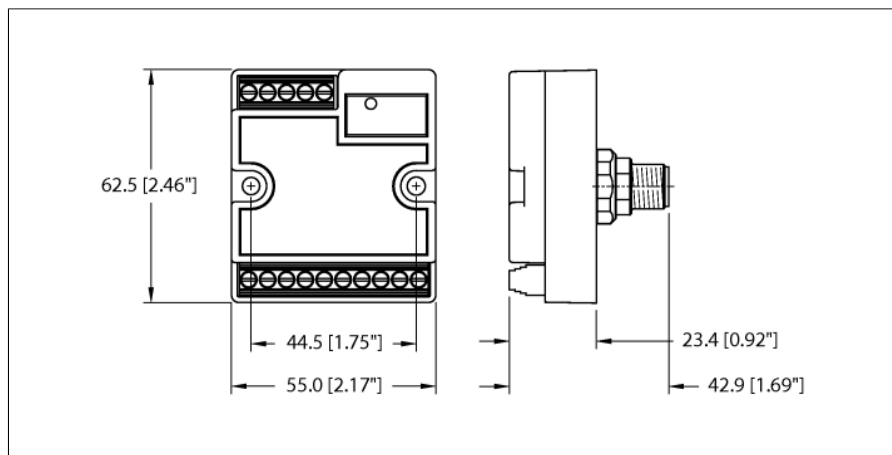


# I/O Hub for Connection of Digital Signals to IO-Link Master

## Eight Universal Digital Channels, PNP

### FIL20-8DXP-E



|      |              |
|------|--------------|
| Type | FIL20-8DXP-E |
| ID   | 100005647    |

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Supply                    |                                                    |
| Supply voltage            | 24 VDC                                             |
| Admissible range          | 20.4...28.8 VDC<br>V1+ max. 4 A                    |
| System power supply       | V1+                                                |
| Voltage supply connection | Screw terminals                                    |
| Operating current         | 120 mA                                             |
| Sensor/actuator supply    | VAUX supply from V1+<br>Short-circuit proof, 0.7 A |

|                                |                                          |
|--------------------------------|------------------------------------------|
| System data                    |                                          |
| Fieldbus connection technology | Screw terminals                          |
| Terminal cross-section         | 0.2...1.5 mm <sup>2</sup> (AWG: 26...14) |
| Tightening torque              | 0.5 Nm                                   |

|                           |                                        |
|---------------------------|----------------------------------------|
| Digital inputs            |                                        |
| Number of channels        | 8                                      |
| Connectivity inputs       | Screw terminals                        |
| Type of input diagnostics | Channel diagnostics                    |
| Low-level signal voltage  | -3...5 VDC (EN 61131-2, type 1 and 3)  |
| High level signal voltage | 11...30 VDC (EN 61131-2, type 1 and 3) |

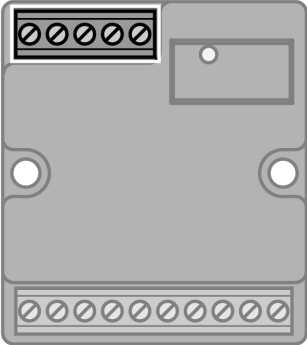
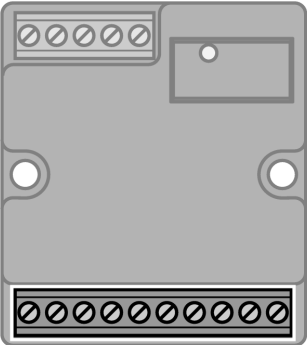
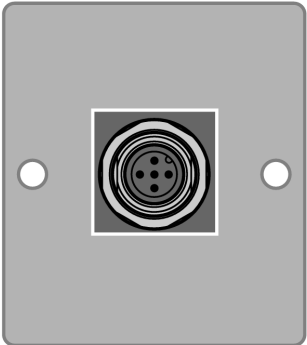
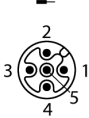
|                            |                                     |
|----------------------------|-------------------------------------|
| Digital outputs            |                                     |
| Number of channels         | 8                                   |
| Connectivity outputs       | Screw terminals                     |
| Output type                | PNP                                 |
| Type of output diagnostics | Channel diagnostics                 |
| Output current per channel | 1.0 A (Ausgang insgesamt max 4.0 A) |
| Load type                  | Resistive, inductive, lamp load     |
| Short-circuit protection   | yes                                 |
| Electrical isolation       | 500 VDC                             |

- Rugged, I/O hub in IP20
- Eight universal digital channels
- Metal screw terminal connectors
- 8 universal digital channels, DI/DO
- 24 VDC, PNP
- Output current: 1.0 A
- I&M data sets support installation and maintenance
- IO-Link diagnostics for short-circuit and supply voltage
- Rear M12 connector for direct feeding through the cabinet wall

|                       |                 |
|-----------------------|-----------------|
| IO-Link               |                 |
| Connectivity IO-Link  | Screw terminals |
| IO-Link specification | V 1.1           |
| IO-Link port type     | Class A         |
| Frame type            | Supports all    |
| Transmission rate     | COM 2/38.4 kbps |
| Programming           | FDT/DTM         |

|                               |        |
|-------------------------------|--------|
| Standard/Directive conformity |        |
| Approvals and certificates    | CE, UL |

|                        |                                           |
|------------------------|-------------------------------------------|
| General Information    |                                           |
| Dimensions (W x L x H) | 55 x 62.48 x 43 mm                        |
| Ambient temperature    | -40...+70 °C                              |
| Storage temperature    | -40...+85 °C                              |
| Altitude               | Max. 5000 m                               |
| Protection class       | IP20                                      |
| MTTF                   | 651 years acc. to SN 29500 (Ed. 99) 20 °C |
| Housing material       | PA6-GF30                                  |
| Housing color          | Black                                     |
| Mounting               | Two mounting holes Ø 5 mm                 |

|                                                                                    |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                    | <p>IO-Link Screw Terminals</p> <p>1 = V1 +<br/>2 = n.c.<br/>3 = V1 -<br/>4 = C/Q<br/>5 = n.c.</p>                                                                                                                                                                           |
|   |                                                                                                                                    | <p>I/O Screw Terminals</p> <p>1 = V1 -      6 = I/O<sub>4</sub><br/>2 = I/O<sub>0</sub>      7 = I/O<sub>5</sub><br/>3 = I/O<sub>1</sub>      8 = I/O<sub>6</sub><br/>4 = I/O<sub>2</sub>      9 = I/O<sub>7</sub><br/>5 = I/O<sub>3</sub>      10 = V<sub>AUX</sub> +</p>  |
|  | <p>Rear M12 connector for direct feeding through the cabinet wall.<br/>Fieldbus cable (example):<br/>RK 4T-2 (ident no. U2151)</p> | <p>IO-Link Port M12</p>  <p>1 = V1 +<br/>2 = n.c.<br/>3 = V1 -<br/>4 = C/Q<br/>5 = n.c.</p>                                                                                                                                                                               |

# Module LED status

| LED indication | Color | Status   | Description                                                               |
|----------------|-------|----------|---------------------------------------------------------------------------|
| IO-Link        | Green | OFF      | Power off                                                                 |
|                |       | Flashing | IO-Link communication OK,<br>valid process data is being sent or received |
|                | Red   | ON       | IO-Link communication or module error                                     |
|                |       | Flashing | IO-Link communication OK,<br>invalid process data or diagnosis            |