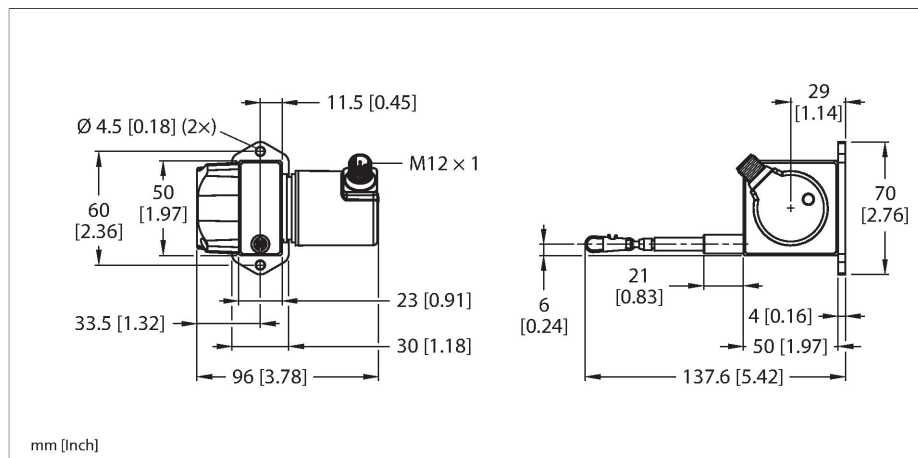


# DWE-1000-70-97-8B-H1151

## Draw-Wire



### Technical data

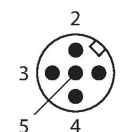
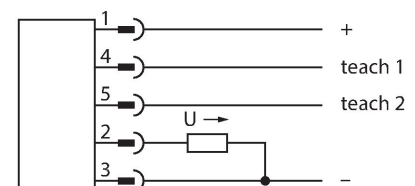
|                                        |                             |
|----------------------------------------|-----------------------------|
| Type                                   | DWE-1000-70-97-8B-H1151     |
| ID                                     | 100049339                   |
| Measuring principle                    | Magnetic                    |
| <b>General data</b>                    |                             |
| Measuring range                        | 1000 mm                     |
| Linearity deviation                    | ≤ 0.05 %                    |
| <b>Electrical data</b>                 |                             |
| Operating voltage $U_B$                | 15...30 VDC                 |
| No-load current                        | ≤ 35 mA                     |
| Short-circuit protection               | yes                         |
| Wire break/reverse polarity protection | yes                         |
| Output function                        | 5-pin, Analog output        |
| Voltage output                         | 0...10 V                    |
| DA converter resolution                | 12 Bit                      |
| <b>Mechanical data</b>                 |                             |
| Design                                 | Draw Wire                   |
| Housing material                       | Titanium anodized aluminium |
| Encoder housing material               | Die-cast zinc               |
| min. extension force                   | 2.8 N                       |
| max. extension force                   | 4 N                         |
| max. extension speed                   | 8 m/s                       |
| Pull acceleration max.                 | 150 m/s <sup>2</sup>        |
| wire material                          | Stainless steel             |
| Electrical connection                  | Connector, M12 × 1          |
| <b>Environmental conditions</b>        |                             |
| Ambient temperature                    | -20...+85 °C                |
| Protection class                       | IP65                        |

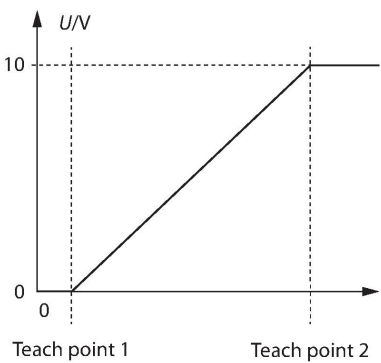


### Features

- Compact, highly dynamic draw-wire sensor
- Measuring principle: magnetic
- With permanently installed analog encoder from the REM-97 product series
- Sensor protection class IP65
- -20...+85 °C
- 15...30 VDC
- Analog output, 0...10 V scalable up to 65,536 revolutions without limit switch/CW
- 12-bit resolution
- M12 × 1 connector, 5-pin
- Resolution: 12 bits on measuring range
- Measuring range can be scaled via teach-in inputs
- Start of the measuring range:  $U_B$  for min. 1 s on teach 1
- End of the measuring range:  $U_B$  for min. 1 s on teach 2

### Wiring diagram





Measuring range settings

Only actuate the teach inputs when the shaft is at a standstill.

| Bridge between Ub (pin 1) and | Teach input teach 1 (pin 4)                                                 | Teach input teach 2 (pin 5)                                                                                        | LED                               |
|-------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| >1 second                     | Set start point of measuring range                                          |                                                                                                                    | The green LED flashes once        |
| >1 second                     |                                                                             | Set end point of measuring range. The measuring range must be >21 mm. A start point must have been set beforehand. | The green LED flashes three times |
| >1 second                     | Reset to factory setting. Connect teach 1 and teach 2 to UB simultaneously. |                                                                                                                    | The LED flashes green, red, green |

If the teach inputs are not used, they should be set to 0 V (GND ground) to avoid faults.

Accessories

|       |         |
|-------|---------|
| RDR-1 | 1544753 |
|-------|---------|

Deflection roller for aluminium draw-wire sensors

