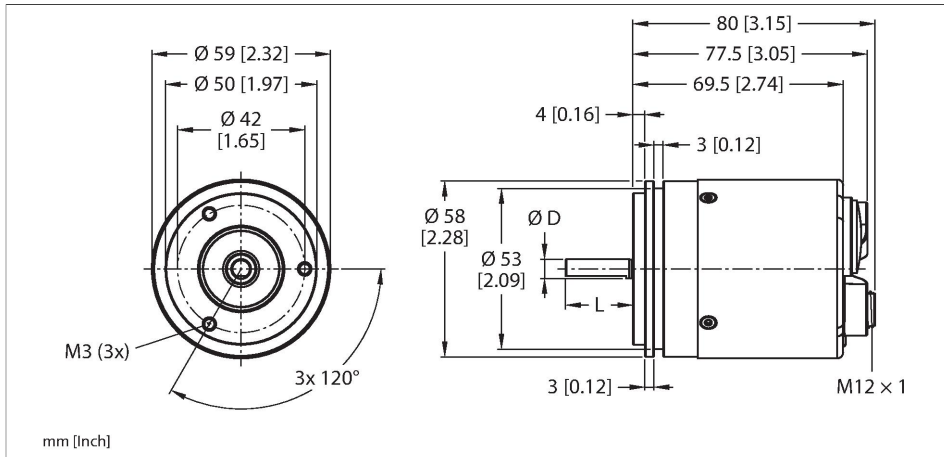


# RM-105S6S-9N43B-B3M12

## Absolute Rotary Encoder - Multiturn

### Industrial Line



#### Technical data

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Type                                   | RM-105S6S-9N43B-B3M12                   |
| ID                                     | 200010768                               |
| Measuring principle                    | Optical                                 |
| <b>General data</b>                    |                                         |
| Max. rotational speed                  | 9000 rpm                                |
| Moment of inertia of the rotor         | $3 \times 10^{-6} \text{ kgm}^2$        |
| Absolute accuracy                      | $\pm 0.015^\circ$ At $25^\circ\text{C}$ |
| Output type                            | Absolute multiturn                      |
| Resolution singleturn                  | 19 Bit                                  |
| Resolution multiturn                   | 24 Bit                                  |
|                                        | Singleturn scalable                     |
| <b>Electrical data</b>                 |                                         |
| Operating voltage $U_B$                | 10...30 VDC                             |
| No-load current                        | $\leq 250 \text{ mA}$                   |
| Short-circuit protection               | yes                                     |
| Wire break/reverse polarity protection | yes                                     |
| Communication protocol                 | EtherNet/IP                             |
| <b>Mechanical data</b>                 |                                         |
| Flange type                            | Synchro flange                          |
| Flange diameter                        | $\varnothing 58 \text{ mm}$             |
| Shaft Type                             | Solid shaft                             |
| Shaft diameter D (mm)                  | 6                                       |
| Shaft Length L [mm]                    | 10                                      |

#### Features

- $\varnothing 58 \text{ mm}$  servo flange
- Solid shaft,  $\varnothing 6 \text{ mm} \times 10 \text{ mm}$
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on shaft side
- $-40 \dots +80^\circ\text{C}$
- Max. 9000 rpm
- 10...30 VDC
- Ethernet/IP
- M12 x 1 male connector for power, 4-Pin A-code
- (2X) M12 female connector for data, 4-pin-D-code
- Singleturn resolution scalable to 19 bit (default 18 bit)
- Multiturn resolution scalable to 24 bit (default 12 bit)

