



- **Multiturn Absolute Encoders**
- **Ø 58 mm Aluminium Housing**

IO-Link communication protocol allows for simplified communication between sensors and Ethernet or fieldbus networks on production lines.

IO-Link is a point-to-point protocol, **compatible with most industrial fieldbuses**, which makes it **easily integrable into existing systems**.

Data transmission, based on a 24V signal, is immune to external interference.

The **IO-Link** protocol ensures:

- **Accurate data transmission**
- **Easy integration into systems**
- **Automated configuration in case of device replacement**
- **Reduced wiring**

► PROGRAMMING & SETTING

O-Link communication is bidirectional (reading and writing), thus allowing the transmission of both cyclic (process) and acyclic data (parameters, error messages, warning, notifications).

The **IO-Link network** consists of an **IO-Link Master**, **IO-Link device** and **cable** (unshielded, up to 20 metres long), with a standardized connector (M12 for **MEM40B** encoder). Both communication and power are passed through the cable, therefore wiring is very simple.

The **IO-Link Master** and **IO-Link devices** can be easily configured by means of the Port Configuration Tool: the software identifies the devices connected to the Master and **automatically downloads the description files (IODDs) from the online database www.ioddfinder.com**

IO-Link features the **automated configuration**; a function of the IO-Link master that stores all parameters of connected devices: **in case of encoder replacement, the master reconfigures the device automatically**, making maintenance operations easier.

SETTABLE PARAMETERS

- Steps/revolution
- Revolutions number
- Preset
- Rotation direction

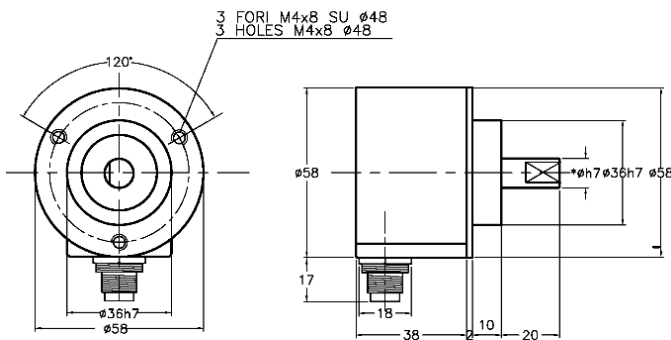
DIAGNOSTIC FUNCTIONS

- Position or parameter error
- Battery alarm
- Temperature alarm

STATE INDICATORS

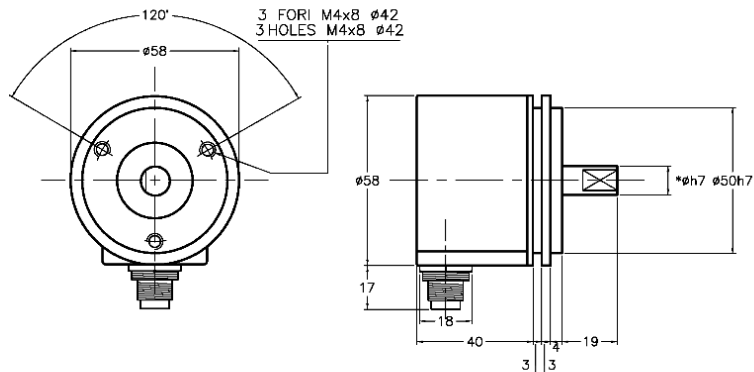
- 1 signalling LED for SDCI - Single Drop Communication Interface

MEM540B IO-Link



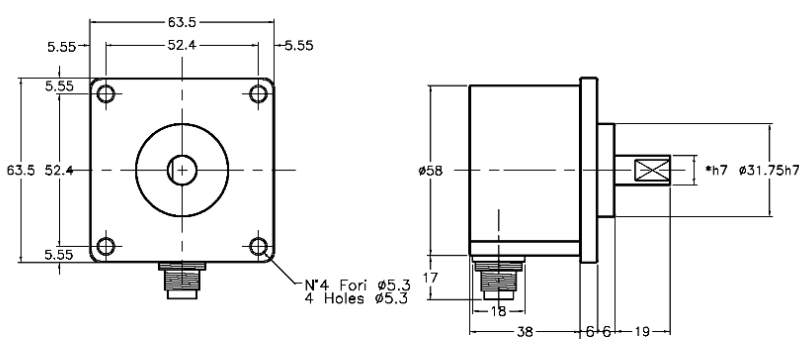
* AVAILABLE SHAFT DIAMETERS
8mm-10mm
shaft diameter 6mm lenght 10mm

MEM520B IO-Link



* AVAILABLE SHAFT DIAMETERS
8mm-10mm
shaft diameter 6mm lenght 10mm

MEM620B IO-Link



* AVAILABLE SHAFT DIAMETERS
8mm-10mm
shaft diameter 6mm lenght 10mm

Rif.M1483V

► MEM-Bus IO-Link ENCODER PROFILE

- Conformance to **all international IEC 61131-9**
- COM3 Communication mode (230,4 kbit/s)
- IO-Link Version: 1.1
- Min Cycle Time: 1000 µs
- SIO supported: yes
- ISDU supported: yes
- Data storage: yes
- Block parameters: yes

► ORDERING INFORMATION

Select:

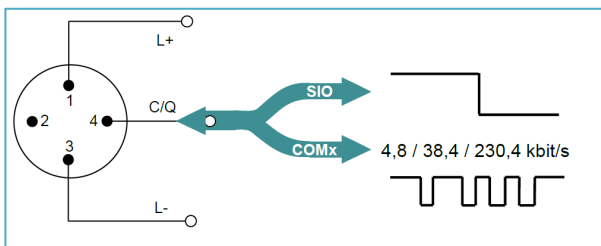
- Type** MEM540B Round clamping flange
MEM520B Round synchro flange
MEM620B Square flange 63.5x63.5 mm
- Protocol** IO-Link
- No. of Turns** Multiturn
- Shaft Ø** 6 – 8 – 10 mm

- MEM540B**
-
- ILK**
-
- M**
-
- 10**

► Encoder **MEM540B-ILK-M-10**

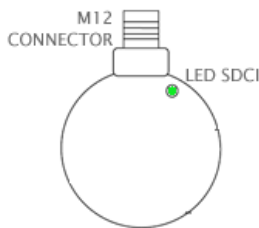
Multiturn with IO-Link interface, Ø 10 mm solid shaft, round flange

► CONNECTIONS



Pin layout: IEC 60947-5-2

Pin	Signal	Definition	Standard
1	L+	24 V	IEC 61131-2
2	I/Q	Not connected, DI, or DO	IEC 61131-2
3	L-	0 V	IEC 61131-2
4	Q	"Switching signal" (SIO)	IEC 61131-2
	C	"Coded switching" (COM1, COM2, COM3)	IEC 61131-9



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ABSOLUTE ENCODERS

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