

# Intelligent incremental encoder with display and IO-Link



**Motion controller: Encoder, speed / direction monitor and counter all in one**

- Resolution of 2...10,000 and signal level (TTL / HTL) freely programmable
- Display: Two-colour electronic rotatable display of the process values
- Versatile: M12 connector can be used radially or axially
- Standard fitting: Solid shaft (clamp / synchro flange) or hollow shaft design
- Transmission of process and diagnostic data via IO-Link



## No compromises

The magnetic sensing principle provides the accuracy of photoelectric encoders and the robustness of magnetic systems.

## Simple

Resolution and signal level can be programmed. The encoders have a wide voltage range of 4.5...30 V DC and are therefore suited for universal use.

## Multifunctional

Performance Line encoders have an integrated signal evaluation for speed monitoring, counter functions and detection of the direction of rotation.

## Intuitive

The encoders provide easy setting, position indication by means of display and operating keys and intuitive menu navigation.






## Networked

Diagnostic and parameter data are reliably transferred via IO-Link. Ready for Industry 4.0.



Housing Ø [mm]	Shaft Ø [mm]	Flange	Resolution [pulse/revolution]	Operating voltage [V DC]	IO-Link	Order no.
<b>Hollow shaft with integrated stator coupling · 4-digit display · Integrated pulse evaluation</b>						
58	12	direct	max. 10,000 (adjustable)	4.5...30	•	<b>ROP520</b>
<b>Solid shaft · 4-digit display · Integrated pulse evaluation</b>						
58	6	servo	max. 10,000 (adjustable)	4.5...30	•	<b>RUP500</b>
58	10	clamp flange	max. 10,000 (adjustable)	4.5...30	•	<b>RVP510</b>





### Accessories

Type	Description	Order no.
	Spring disc coupling, Ø 6 mm / 10 mm, die-cast zinc; PA	<b>E60117</b>
	Spring disc coupling, Ø 10 mm / 10 mm, die-cast zinc; PA	<b>E60118</b>
	Fastening clamp for synchro flange, steel	<b>E60041</b>
	Flexible coupling with clamp connection, Ø 6 mm / 10 mm, aluminium	<b>E60066</b>
	Flexible coupling with clamp connection, Ø 10 mm / 10 mm, aluminium	<b>E60067</b>
	Flexible coupling with adjusting screws, Ø 10 mm / 10 mm, aluminium	<b>E60022</b>
	Flexible coupling with adjusting screws, Ø 6 mm / 10 mm, aluminium	<b>E60028</b>
	Measuring wheel, Ø 159.15 mm / 10 mm, Hytrel TPE-E	<b>E60110</b>
	Measuring wheel, Ø 159.16 mm / 10 mm, aluminium, PU	<b>E60076</b>
	Measuring wheel, Ø 63.66 ± 0.1 mm / 10 mm, Hytrel TPE-E	<b>E60138</b>
	Measuring wheel, Ø 63.6 mm, 10 mm, aluminium	<b>E60095</b>
	Measuring wheel, Ø 63.66 ± 0.1 mm / 6 mm, aluminium	<b>E60137</b>
	Measuring wheel, Ø 63.6 mm, 6 mm, aluminium	<b>E60006</b>
	Angle bracket for RUP design, aluminium, black anodised	<b>E60033</b>
	Angle bracket for RUP design, aluminium, black anodised	<b>E60035</b>


### Further technical data

Switching frequency	[kHz]	300
Protection		IP 65, IP 67
Connection		M12 connector (rotatable)

### Accessories

Type	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s)	<b>E30390</b>
	Adapter cable for the connection between USB IO-Link master E30390 and 4-pole / 8-pole encoder	<b>E12432</b>
	LINERECORDER SENSOR, Software for parameter setting and set-up of IO-Link sensors	<b>QA0001</b>
	Memory plug, parameter memory for IO-Link sensors	<b>E30398</b>

### Connection technology

Type	Description	Order no.
	M12 socket, shielded, 2 m black, PUR cable, 8 poles	<b>E12402</b>
	M12 socket, shielded, 5 m black, PUR cable, 8 poles	<b>E12403</b>
	M12 socket, shielded, 10 m black, PUR cable, 8 poles	<b>E12404</b>