



Sensors for motion control

Intelligent incremental encoder with display and IO-Link



Encoders

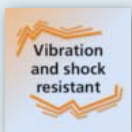


Resolution of 1...10,000 and signal level (TTL / HTL) freely programmable

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



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

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

Resolution and signal level can be programmed. The encoders have a wide voltage range of 4.75...30 V DC and are therefore suited for universal use.

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

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

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.
Hollow shaft with single stator coupling · 4-digit display · Integrated pulse evaluation						
58	12	direct	max. 10,000 (adjustable)	4.75...30	•	ROP520
Hollow shaft with double stator coupling · 4-digit display · Integrated pulse evaluation						
58	12	direct	max. 10,000 (adjustable)	4.75...30	•	ROP521
Solid shaft · 4-digit display · Integrated pulse evaluation						
58	6	synchro	max. 10,000 (adjustable)	4.75...30	•	RUP500
58	10	clamp flange	max. 10,000 (adjustable)	4.75...30	•	RVP510

Accessories

Type	Description	Order no.
	Spring disc coupling, Ø 6 mm / 10 mm, die-cast zinc; PA	E60117
	Spring disc coupling, Ø 10 mm / 10 mm, die-cast zinc; PA	E60118
	Stator coupling for ROP / RO3 design	E60205
	Fastening clamp for synchro flange, steel	E60041
	Flexible coupling with clamp connection, Ø 6 mm / 10 mm, aluminium	E60066
	Flexible coupling with clamp connection, Ø 10 mm / 10 mm, aluminium	E60067
	Flexible coupling with adjusting screws, Ø 10 mm / 10 mm, aluminium	E60022
	Flexible coupling with adjusting screws, Ø 6 mm / 10 mm, aluminium	E60028
	Flexible coupling with clamp connection, Ø 6 mm / 1/4", aluminium	E60206
	Flexible coupling with clamp connection, Ø 6 mm / 3/8", aluminium	E60207
	Flexible coupling with clamp connection, Ø 10 mm / 1/2", aluminium	E60208
	Flexible coupling with clamp connection, Ø 10 mm / 3/8", aluminium	E60209
	Measuring wheel, Ø 159.15 mm / 10 mm, Hytrel TPE-E	E60110
	Measuring wheel, Ø 159.16 mm / 10 mm, aluminium, PU	E60076
	Measuring wheel, Ø 63.66 ± 0.1 mm / 10 mm, Hytrel TPE-E	E60138
	Measuring wheel, Ø 63.6 mm, 10 mm, aluminium	E60095
	Measuring wheel, Ø 63.66 ± 0.1 mm / 6 mm, aluminium	E60137
	Measuring wheel, Ø 63.6 mm, 6 mm, aluminium	E60006
	Angle bracket for RUP design, aluminium, black anodised	E60033
	Angle bracket for RUP design, aluminium, black anodised	E60035

Further technical data

Switching frequency	[kHz]	1000
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)	E30390
	Adapter cable for the connection between USB IO-Link master E30390 and 3-pole / 8-pole encoder	E12432
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011
	Memory plug, parameter memory for IO-Link sensors	E30398

Connection technology

Type	Description	Order no.
	M12 socket, shielded, 2 m black, PUR cable, 8 poles	E12402
	M12 socket, shielded, 5 m black, PUR cable, 8 poles	E12403
	M12 socket, shielded, 10 m black, PUR cable, 8 poles	E12404
	Connection cable, M23 plug / M12 socket, PUR cable, shielded, 0.3 m black, 8 poles	E12460