



Sensors for motion control

Stainless steel encoders for wet areas



Encoders



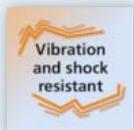
Longevity: Stainless-steel housing for corrosion resistance

Cost reduction: IO-Link allows the use of three-core cables

Permanent: Clearly legible laser type label

No loss of values: Can also be configured as singleturn encoder via IO-Link

Programmable parameters mean fewer types needed



For demanding environmental conditions

ifm's stainless steel incremental encoders, for applications such as conveyor belt synchronisation, ensure longer maintenance intervals in harsh environments. The increased protection rating IP 67 qualifies them for use in wet areas in the food industry.

Versatile thanks to IO-Link

All incremental encoders from ifm operate like absolute singleturn encoders when used on IO-Link. They detect and save their position value even if power fails.

IO-Link communication

Process values, parameter setting and diagnostic data can be transmitted via IO-Link. Preventive maintenance is now as easy as child's play.



Housing Ø [mm]	Shaft Ø [mm]	Flange	Resolution [pulses / revolution]	Connection	IO-Link	Order no.
Solid shaft						
58	10	clamp	max. 10,000 (adjustable)	M12, 5-pole	•	RV3110
58	6	synchro	max. 10,000 (adjustable)	M12, 5-pole	•	RU3110
Hollow shaft with 2 integrated stator couplings						
58	15	direct	max. 10,000 (adjustable)	M12, 5-pole	•	RO3110

Accessories

Type	Description	Order no.
	Reducing bush for RO3, ROP designs 15...14 mm	E60210
	Reducing bush for RO3, ROP designs 15...10 mm	E60211
	Reducing bush for RO3, ROP designs 15...8 mm	E60212
	Reducing bush for RO3, ROP designs 15...6 mm	E60213
	Reducing bush for RO3, ROP designs 15...12 mm	E60214
	Stator coupling for RO design stainless steel (301 / 1.4310)	E60205
	Fastening clamp	E60041
	Target wheel, circumference / shaft diameter 500 mm / 10 mm	E60217
	Bellows coupling with adjusting screws, Ø 6 mm / 10 mm	E60215
	Bellows coupling with adjusting screws, Ø 10 mm / 10 mm	E60216

Connection technology

Type	Description	Order no.
	Socket, M12, shielded, 2 m, orange, PVC cable, 5-pole	EVT405
	Socket, M12, shielded, 5 m, orange, PVC cable, 5-pole	EVT406
	Socket, M12, wet areas, 2 m, grey, MPPE cable, 5-pole	EVF480
	Socket, M12, wet areas, 5 m, grey, MPPE cable, 5-pole	EVF481
	IO-Link master Profinet, 4-port	AL1101
	IO-Link master EtherNet/IP, 4-port	AL1121

Further technical data

Operating voltage	[V DC]	4.75...30
Switching frequency	[kHz]	1000
Protection		IP 67 / IP 67 (on the housing); IP 67 (on the shaft)
Materials	Flange	high-grade stainless steel (316Ti / 1.4571)
	Housing	stainless steel (443 / 1.4521)
	Shaft	high-grade stainless steel (316Ti / 1.4571)
	Plug	stainless steel (316 / 1.4401)

Accessories IO-Link

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 kBit/s)	E30390
	Adapter cable for the connection between E30390 USB IO-Link master 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
	IO-Link display, connection to master	E30391
	IO-Link display, connection between master and sensor (incl. Y splitter)	E30430