ifm electronic ifm

Programmable incremental encoder with IO-Link

Reduce stock without compromise

- ● **Flexible: Resolution of 2...10,000 freely programmable**

- ● **Simple: Signal level can be set in TTL or HTL logic**

- ● **Universal: M12 connector or radial or axial cable entry**

- ● **Standard fitting: Solid shaft (clamp / synchro flange) or hollow shaft design**

- ● **Communicative: Transfer of process and diagnostic data via IO-Link**

IP 65 IP 67 | IO-Link | Vibration and shock resistant |

No compromises

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

Select the right encoder in just 2 minutes

The days of confusing type variety and encoders with complicated programming are finally over! The new incremental encoders from ifm electronic can be used universally due to the intelligent product and function design, and stand out thanks to a superb price / performance ratio:

- Set the resolution individually
- Choose between TTL or HTL logic
- Use the rotatable M12 connector or the cable entry radially or axially

Now select a flange and shaft – that's it!

IO-Link communication

Process values, parameter setting and diagnostic data can now be transmitted via IO-Link. So, settings can be simply made prior to installation.

Sensors for motion control
Encoders

ifm electronic

Housing Ø [mm]	Shaft Ø [mm]	Flange	Resolution [pulse/revolution]	Connection	IO-Link	Order no.
Hollow shaft with integrated stator coupling						
36.5	6	direct	max. 10,000 (adjustable)	M12	•	**RA3100**
36.5	6	direct	max. 10,000 (adjustable)	cable, 2 m	•	**RA3500**
58	12	direct	max. 10,000 (adjustable)	M12	•	**RO3100**
58	12	direct	max. 10,000 (adjustable)	cable, 2 m	•	**RO3500**
Solid shaft						
36.5	6	universal	max. 10,000 (adjustable)	M12	•	**RB3100**
36.5	6	universal	max. 10,000 (adjustable)	cable, 2 m	•	**RB3500**
58	6	servo	max. 10,000 (adjustable)	M12	•	**RU3100**
58	6	servo	max. 10,000 (adjustable)	cable, 2 m	•	**RU3500**
58	10	clamp flange	max. 10,000 (adjustable)	M12	•	**RV3100**
58	10	clamp flange	max. 10,000 (adjustable)	cable, 2 m	•	**RV3500**

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**
	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**
	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 RB and RU design, aluminium, black anodised	**E60033**
	Angle bracket for RV design, aluminium, black anodised	**E60035**

Further technical data

Operating voltage	[V DC]	4.5...30
Switching frequency	[kHz]	300
Protection		IP 65, IP 67

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**
	LINERECORDER SENSOR, software for parameter setting and set-up of IO-Link sensors	**QA0001**
	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**

ifm – close to you!