

Built-in encoder

Integrated – flexible – cost-optimized



**Compact
drive –
Compact
price**

Short and to the point

Built-in encoder know-how from SEW-EURODRIVE

Benefit package: „Costs“ – built-in encoder with MOVITRAC® advanced
Encoder evaluation without encoder card at the fast inputs



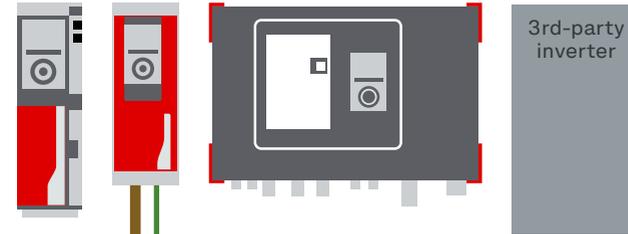
DR.. motor with built-in encoder EI8C

Motor power / brake

Encoder and temperature sensor

Optimized manufacturing. Clever integration.

SEW-EURODRIVE impresses with its system!



EI8R and EI8C are integrated into the MOVI-C® modular automation system. Third-party inverters are also compatible with HTL/TTL interfaces in conventional 2-cable technology.

The benefit of SEW-EURODRIVE's modular system is apparent in the modern MOVILINK® DDI single-cable technology with EI8Z and with MOVI-C® in the control cabinet or in a decentralized design.

Benefit package: „Digitalization“ – built-in encoder with MOVILINK® DDI
All functions of the drive with MOVI-C® via a single interface

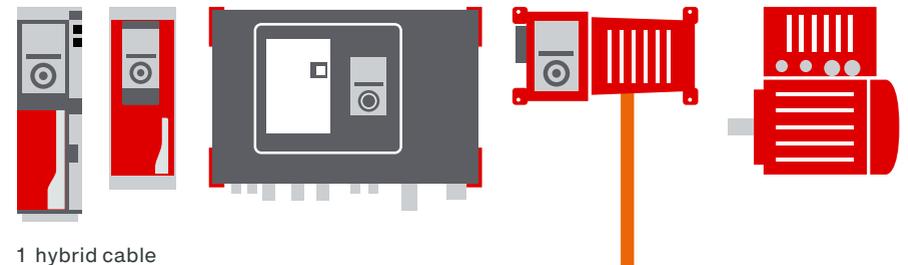


DR.. motor with built-in encoder EI8Z (MOVILINK® DDI)

MOVILINK® DDI –
Enable connectivity and digitalisation.



Power, brake, encoder, sensor technology, electronic name-plate – all in one cable



1 hybrid cable

→ **Integrated.**
→ **Efficient.**
→ **Optimized.**

Thanks to innovative manufacturing processes and optimized components, EI8.. built-in encoders are now manufactured more cost-effectively. Quality and reliability from SEW-EURODRIVE.

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DR.. motor with built-in encoder EI8C



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DR.. motor with built-in encoder EI8Z (MOVILINK® DDI)

Frequency inverter in control cabinet: e.g. MOVITRAC® advanced



Motor power / brake

Encoder and temperature sensor



MOVI-C®: Decentralized Inverter e.g. MOVIMOT® flexible

Perfectly adapted and integrated

The **EI8.. built-in encoders of the medium performance class** have been optimally adapted and integrated by SEW-EURODRIVE. Positioning tasks can be solved very well thanks to standard interfaces (HTL/TTL), speed and torque control at medium and high speeds achieve good results, and the use with MOVILINK® DDI results in additional added value: Such as automatic startup, brake control, and condition monitoring, etc.

Advantages of built-in encoders at a glance:

Compact

Integrated into the drive without additional length and interference contour.

Flexible

Combination of built-in and add-on encoders possible in one drive, e.g. to meet special functional safety requirements in the machine or system, which means that two encoders can be used simultaneously in one drive.

Low-maintenance

No time-consuming service required, as a wear-free, magnetic measuring method is used.



Scan QR code and watch the video:
Presentation of built-in encoders



Total length DR.. motor with built-in encoder

Add-on encoder

Significantly shorter motor length (e.g. 46% in DRN71MS)

Technical highlights EI8.. built-in encoders

Type	EI8R	EI8C	EI8Z
Motors	DRN.., DR2.., DRU71 – 132S, fully integrated, no additional motor length		
Class	Medium performance class		
Interface	TTL, differential	HTL, differential	MOVILINK® DDI
Resolution/revolution	1024 periods/4096 increments		12 bit
Ambient temperature	-30 °C up to +60 °C		
Cable length	up to 100 m	up to 100 m 50 m at terminals: MOVITRAC® advanced	up to 200 m
MOVI-C®: inverter Control cabinet	MOVIDRIVE® modular,	MOVIDRIVE® technology,	MOVIDRIVE® system MOVITRAC® advanced
Decentralized inverter	MOVIPRO® technology	MOVIPRO® technology	MOVIPRO® technology, MOVIMOT® flexible (close to the motor) MOVIMOT® advanced (motor integrated)
Third-party inverter	yes	yes	no

For more information on motor encoders, drive electronics and the comprehensive service and product portfolio, please visit www.sew-eurodrive.com



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