

SAFECODER



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GENERAL

The safety Sin/Cos incremental encoder SAFECODER, together with Mosaic, comprise a SIL 3 certified safety function for speed monitoring. SAFECODER encoders are characterized by robust and reliable interface and the ability to handle high mechanical loads and electronic equipment.

MAIN CHARACTERISTICS

Incremental encoder for use in safety-related applications up to SIL3.

Shaft or Hollow Shaft versions.

Protection rate: housing and flange side IP67, shaft IP65 (optional IP67)

Safety-Lock™.

Allow high rotational speed and high shaft load capacity

Shock and vibration resistant.

Insensitive to strong magnetic fields.

2048 pulse rate.



Shaft version



Hollow Shaft version

TECHNICAL DATA AND ORDERING CODES

Model	SC3 24D2048R	SC3 05D2048R	SC3 24B2048R	SC3 05B2048R
Ordering code	1100102	1100103	1100104	1100105
Power supply	24 VDC	5 VDC	24 VDC	5 VDC
Shaft type	Hollow Shaft version Ø 12 mm		Shaft version Ø 10 mm with flat	
Resolution	2048 pulse rate		2048 pulse rate	
Connector	Radial M12		Radial M12	

Cables

Model	Code	Description
C8D5 SH	1330930	M12 straight connector, 8 poles, pre-wired shielded cable 5 m
C8D10 SH	1330931	M12 straight connector, 8 poles, pre-wired shielded cable 10 m
C8D15 SH	1330932	M12 straight connector, 8 poles, pre-wired shielded cable 15 m
C8D95 SH	1330933	M12 90° angled connector, 8 poles, pre-wired shielded cable 5 m
C8D910 SH	1330934	M12 90° angled connector, 8 poles, pre-wired shielded cable 10 m
C8D915 SH	1330935	M12 90° angled connector, 8 poles, pre-wired shielded cable 15 m

Cable supplied with M12 8-pole connector at one end only. The other side must be cut off at correct length and crimped with RJ45 connector (not included).

Safety level: SIL 3 – SILCL 3 – PL e – Cat. 4 – Type 4

- 2006/42/EC “Machinery Directive”
- 2004/108/EC “Electromagnetic Compatibility (EMC)”
- EN ISO 13849-1 “Safety of machinery: Safety-related parts of control systems. Part 1: General principles for design”.
- EN ISO 13849-2 “Safety of machinery: Safety-related parts of control systems. Part 2: Validation”
- IEC 61508 “Functional safety of electrical, electronic and programmable electronic safety-related systems.
- EN ISO 61800-5-2 “Adjustable speed electrical power drive systems”. Part 5-2 Safety requirements - Functional
- UL (C+US) mark for USA and Canada
- BGIA - Institute for Occupational Safety and Health - Germany.



Safety level:
SIL 3
SIL 3 – SILCL 3
PL e – Cat. 4