



SERIE CS10/CM10

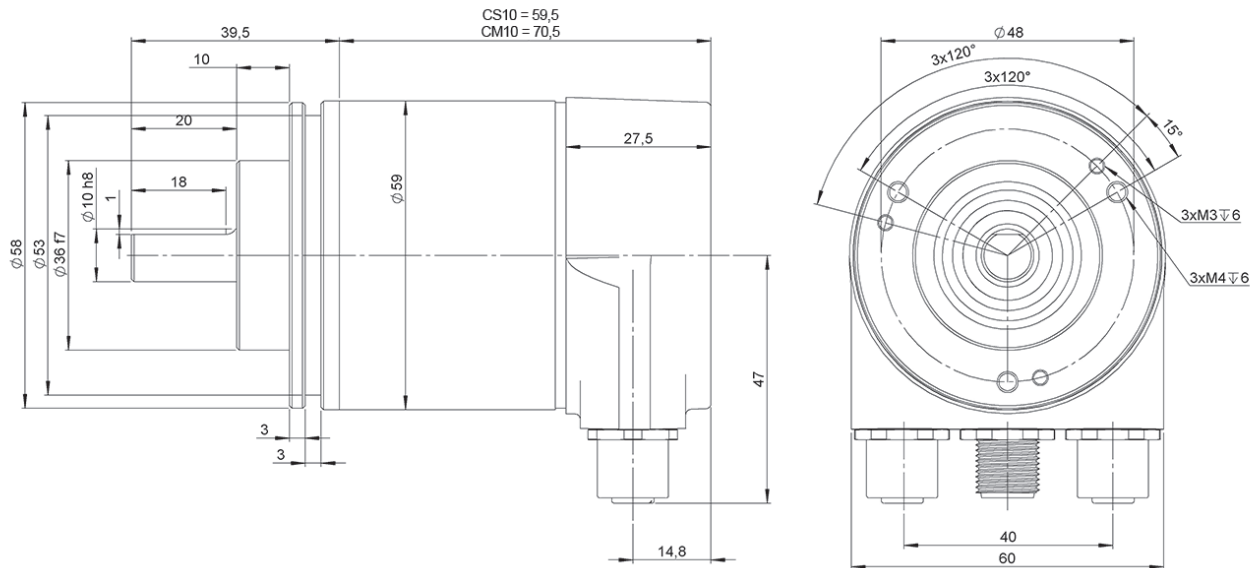
SINGLETURN AND MULTITURN
ABSOLUTE SOLID SHAFT ENCODER



- EtherCAT
- Programmable up to 30 bits (65.536 points per turn, 16.384 turns)
- External diameter 58 mm
- Shaft \varnothing 6 or 10 mm
- Protection class IP65 according to DIN EN 60529
- Connection by industrial connector 3 x M12



Optical Encoder	Absolute Encoder	High shaft load capacity	Vibration and shock resistant	IP65	Temperature range



Drawing shaft type 2, connection type 2, clamping

REFERENCE

Reference example: CS10-1262-16 | CM10-2162-1614

Serie	Flange	Shaft	Interface	Connection	Singleturn resolution	Multiturn resolution	Special customer
CS10/CM10 -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	. <input type="checkbox"/> <input type="checkbox"/>
CS10. Singleturn	1. Clamping	1. \varnothing 6x10 mm	6. EtherCAT	2. 3 x M12	up to 16 bits	up to 14 bits	
CM10. Multiturn	2. Synchro	2. \varnothing 10x20 mm		Connector	(Standard: 13 bits)	(Standard: 12 bits)	

(*) Mating connectors are not included in the reference. All options available in the section "ACCESSORIES", upon request.

Order your reference
Step file 3D

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service available in 24 h



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MECHANICAL SPECIFICATIONS

Materials	Housing: Aluminium Flange: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	55x10 ⁸ rev. (Clamping) [40 N / 110 N] 150x10 ⁸ rev. (Clamping) [40 N / 60 N] 85x10 ⁸ rev. (Synchro) [40 N / 110 N] 195x10 ⁸ rev. (Synchro) [40 N / 60 N]
Shaft diameter	6 or 10 mm
Maximum number of revolutions permitted mechanically	≤ 12000 rpm
Protection according to DIN EN 60529	IP65
Rotor inertia moment	≤ 30 gcm ²
Starting torque at 20°C (68°F)	≤ 0,03 Nm
Maximum load permitted on axial shaft	40 N
Maximum load permitted on radial shaft	110 N
Weight aprox.	370 g
Operating temperature range	-40°C to +85°C
Storage temperature range	-40°C to +85°C
Humidity	98% RH, not condensed
Vibration according to DIN EN 60068-2-6	100 m/s ² (10Hz...1000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s ² (6ms)
Radial connection	3 x M12 Connector Mating connectors not included

INTERFACE



Profile	CoE (CANopen over EtherCAT, DS-301+DS-406)
Diagnostics	OptoAsic, Memory, LED
Programming functions	Resolution, preset, counting direction
Features	Boot-Loader, Round Axis
Transmission rate	10 / 100 Mbit
Interface cycle time	≥ 62,5 µs

ELECTRICAL SPECIFICATIONS

Output Driver	Ethernet
Power supply	10...30 VDC
Consumption	≤ 230 mA (10 VDC) ≤ 100 mA (24 VDC)
Power Consumption	≤ 2.5 W
Start time	< 250 ms
Singleturn resolution	up to 16 bits
Multiturn resolution	up to 14 bits
Accuracy (INL)	±0.0220° (14 – 16 bits) ±0.0439° (≤13 bits)
Code	Binary
Short circuit protection	Yes
Protection polarity inversion	Yes
EMC: Emitted interference	DIN EN 61000-6-4
EMC: Noise immunity	DIN EN 61000-6-2
MTTF	65 years

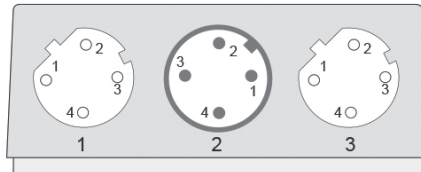
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CONNECTION

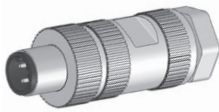
Mating connectors not included



	M12 4p Female d coded	M12 4p Male a coded	M12 4p Female d coded
VCC	-	1	-
GND	-	3	-
Tx+	1	-	1
Rx+	2	-	2
Tx-	3	-	3
Rx-	4	-	4
Not connected	-	2, 4	-

ACCESSORIES

90.9556
M12 4p
Male



90.9555
M12 4p
Female



FLANGE DIMENSIONS

Flange 2
Synchro

