



# SERIE CS10/CM10

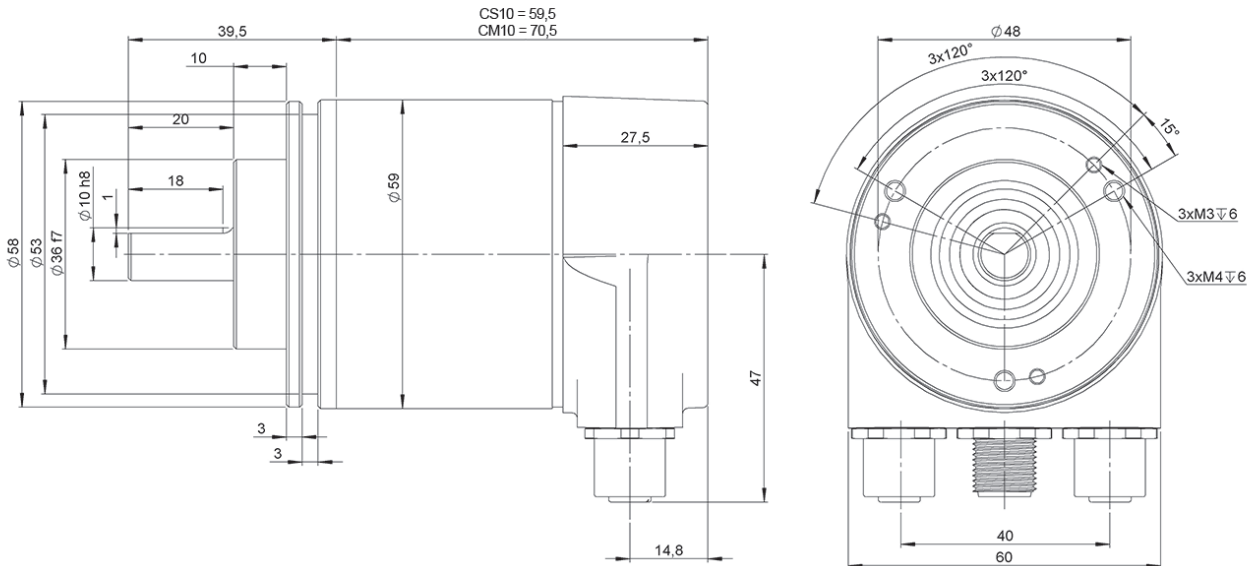
SINGLETURN AND MULTITURN  
ABSOLUTE SOLID SHAFT ENCODER

EtherNet/IP™

- EtherNet/IP
- 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: CS10-1252-16 | CM10-2152-1614

Serie	Flange	Solid 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 CM10. Multiturn	1. Clamping 2. Synchro	1. $\varnothing$ 6x10 mm 2. $\varnothing$ 10x20 mm	5. EtherNet/IP	2. 3 x M12 Connector	up to 16 bits (Standard: 13 bits)	up to 14 bits (Standard: 12 bits)	

Order your reference  
Step file 3D

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service available in 24 h



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## SINGLETURN AND MULTITURN ABSOLUTE SOLID SHAFT ENCODER

EtherNet/IP™

### MECHANICAL SPECIFICATIONS

Materials	Housing: Aluminium Flange: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	55x10 <sup>8</sup> rev. (Clamping) [40 N / 110 N] 150x10 <sup>8</sup> rev. (Clamping) [40 N / 60 N] 85x10 <sup>8</sup> rev. (Synchro) [40 N / 110 N] 195x10 <sup>8</sup> 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 <sup>2</sup>
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 <sup>2</sup> (10Hz...1000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s <sup>2</sup> (6ms)
Radial connection	3 x M12 Connector <b>Mating connectors not included</b>

### INTERFACE

EtherNet/IP™

Profile	CIP
Diagnostics	Memory
Programming functions	Resolution, time base and filter for velocity, preset, counting direction, IP-Address
Features	Boot-Loader, Round Axis
Transmission rate	10 / 100 Mbit
Interface cycle time	≥ 1 ms

### 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° (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

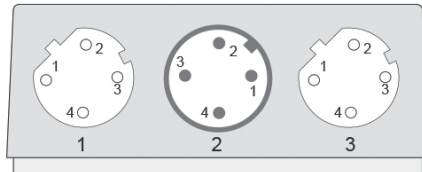
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EtherNet/IP™

### CONNECTION

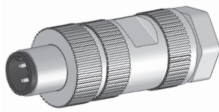
Mating connectors not included



	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

