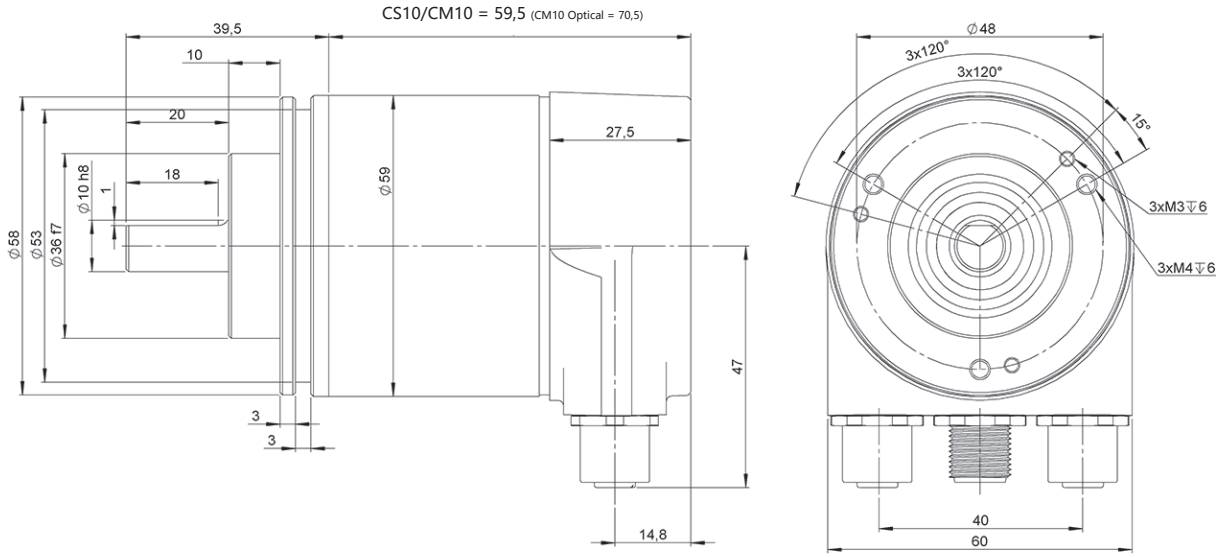
SERIE CS10/CM10

SINGLETURN AND MULTITURN ABSOLUTE SOLID SHAFT ENCODER

- Profinet
- Singleturn resolution up to 13 bits
- Multiturn resolution up to 27 bits
- External diameter 58 mm
- Shaft Ø10 mm
- Protection class IP65 according to DIN EN 60529
- Connection by industrial connector 3 x M12

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



Drawing shaft type 2, Connection 2 (Radial), Clamping

REFERENCE

Reference example: CM10-PFN-12112-1312

Serie	Interface	Flange	Solid shaft	IP	Technology	Connection	Singleturn resolution	Multiturn resolution	Special customer
CS10/CM10 -	**PFN -**	☐	☐	☐	☐	☐	**-**☐☐	☐☐	**.**☐☐
CS10. Singleturn **CM10.** Multiturn		**1.** Clamping **2.** Synchro	**2.** Ø 10x20 mm	**1.** IP65	**1.** Magnetic	**2.** Radial 3 x M12	**13.** 13 bits	**12.** 12 bits **14.** 14 bits	**I3.** INOX 303

Other options available, upon request: Solid shaft Ø 6x10 mm and Ø 12x20 mm, IP67, Optical technology, Axial 3 x M12 or 16 bits Singleturn.

Order your reference
Step file 3D
info@encoderhohner.com
service available in 24 h

SERIE CS10/CM10

SINGLETURN AND MULTITURN ABSOLUTE SOLID SHAFT ENCODER

MECHANICAL SPECIFICATIONS

Materials	Housing: Steel Flange: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	55x10⁸ rev. (Clamping) [40 N / 110 N] 150x10⁸ rev. (Clamping) [40 N / 60 N] 85x10⁸ rev. (Synchro) [40 N / 110 N] 195x10⁸ rev. (Synchro) [40 N / 60 N]
Shaft diameter	10 mm
Maximum number of revolutions permitted mechanically	≤ 12000 rpm
Protection according to DIN EN 60529	IP65
Rotor inertia moment	≤ 30 gcm²
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.	350 g (connection type 2)
Operating temperature range	-40°C to +85°C (connection type 2)
Storage temperature range	-40°C to +85°C
Humidity	98% RH, not condensed
Vibration according to DIN EN 60068-2-6	100 m/s² (10Hz...1000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s² (6ms)
Connection	3 x M12 Connector Mating connectors not included

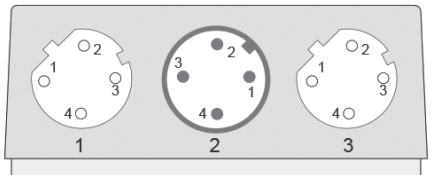
INTERFACE

Profile	Profidrive Profile 4.x Encoder Profile 4.x
Diagnostics	Memory
Programming functions	Resolution, time base and filter for velocity, preset, counting direction, IP-Address
Features	Boot-Loader, Round Axis, Flashing LEDs
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	13 bits
Multiturn resolution	12 bits - 14 bits
Accuracy (INL)	±0.0878° (Magnetic)
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

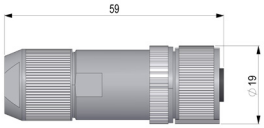
CONNECTION



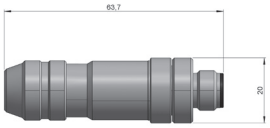
	M12 4p Female d coded	M12 4p Male a coded	M12 4p Female d coded	
VCC	-	1	-	
GND	-	3	-	
Tx+	1	-	1	
Rx+	2	-	2	
Tx-	3	-	3	
Rx-	4	-	4	
Not connected	-	2, 4	-	

ACCESSORIES

95.0007076
M12 4p
Female

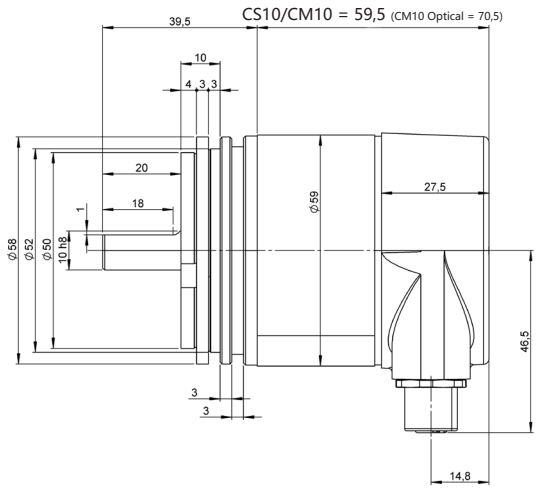


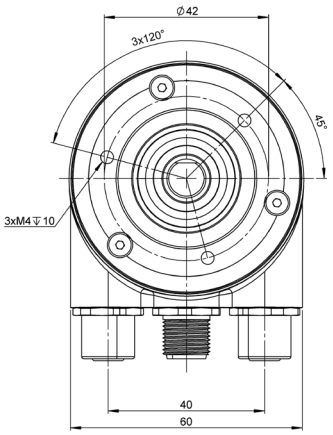
95.0007077
M12 4p
Male



FLANGE DIMENSIONS

Flange 2
Synchro





CS10-CM10-ProPnet_EN_01 04/24 Subject to errors and changes.
All rights reserved © Hohner Automation S.L.