



SERIE CM10 PAR

MULTITURN ABSOLUTE ENCODER

PARALLEL

- Parallel
- Singleturn resolution up to 13 bits
- Multiturn resolution up to 25 bits
- External diameter 58,5 mm
- Shaft Ø 6, 10 or 12 mm
- Protection class IP65 according to DIN EN 60529
- Connection by cable (other cable length available)



Optical Encoder



Absolute Encoder



High shaft load capacity



Vibration and shock resistant



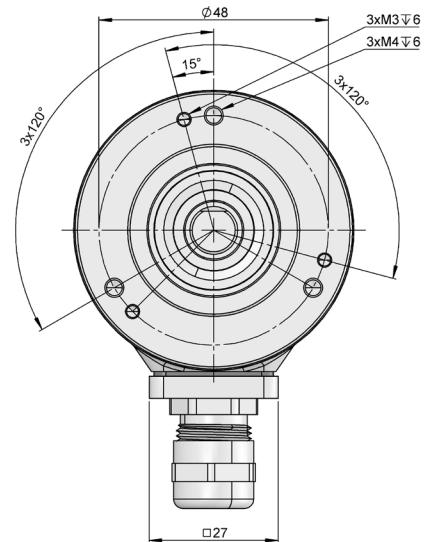
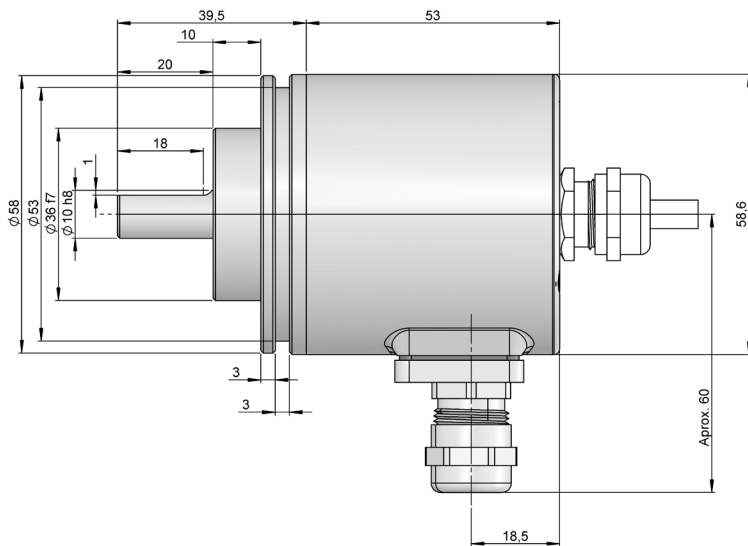
IP65



Temperature range



Express Delivery



Drawing shaft type 1, connection type 12

REFERENCE

Reference example: CM10-PAR-121312-1212

Serie	Interface	Flange	Solid shaft	IP	Code	Connection	Singleturn resolution	Multiturn resolution	Special customer
CM10 -	PAR -	☐	☐	☐	☐	☐	☐	☐	☐
		1. Clamping 2. Synchro (90.1102) 3. Square flange (90.1005)	1. Ø 6x10 mm 2. Ø 10x20 mm 8. Ø 12x20 mm	1. IP65 (*)	1. Binary CW 3. Gray CW	11. Axial cable 12. Radial cable (*)	12. 12 bits 13. 13 bits (*)	12. 12 bits (*)	

(*) Other options available, upon request

Order your reference Step
file 3D

info@encoderhohner.com

service available in 24 h



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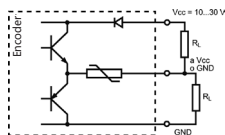
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MECHANICAL SPECIFICATIONS

Materials	Cover: Aluminium Housing: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	55·10 ⁸ rpm
Shaft diameter	6, 10 or 12mm
Maximum number of revolutions permitted mechanically	12000 rpm
Protection against dust and splashes according to DIN EN 60529	IP65
Rotor inertia moment	30 gcm ²
Starting torque at 20°C (68°F)	≤ 3 Ncm
Maximum load permitted on axial shaft	40 N
Maximum load permitted on radial shaft	110 N
Weight aprox.	0.3 Kg
Operating temperature range	-30°C to +70°C
Vibration	100 m/s ² (10Hz...1000Hz)
Shock	1000 m/s ² (6ms)
Axial or radial connection	2 meters cable or industrial connector (other cable lengths available on order) Female connector not included

OUTPUT SIGNALS



OUTPUT CIRCUIT	Push-Pull
Reference code	3
Power supply	10...30 VDC
Consumption max.	150 mA
Max. load capability / channel	±30 mA
"Low" signal level	VOL < 2.5 VDC
"High" signal level	VOH > VCC - 3V
Frequency	200 kHz

ELECTRICAL SPECIFICATIONS

Interface	Parallel
Code	Binary Gray
Singleturn resolution	up to 8192 points per turn (13 bits)
Multiturn resolution	up to 4096 turns (12 bits)
Accuracy	±0.0439°
Parameters config.	Direction

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CONNECTION



	Cable
GND	Yellow (YE) - Pink (PK)
+UB	Pink (PK) - Green (GN)
Latch	Grey (GY) - Green (GN)
Preset	Brown (BN) - Black (BK)
Complement	Yellow (YE) - Grey (GY)
Bit 1	White (WH)
Bit 2	Brown (BN)
Bit 3	Green (GN)
Bit 4	Yellow (YE)
Bit 5	Grey (GY)
Bit 6	Pink (PK)
Bit 7	Blue (BU)
Bit 8	Red (RD)
Bit 9	Black (BK)
Bit 10	Violet (VT)
Bit 11	Grey (GY) - Pink (PK)
Bit 12	Blue (BU) - Red (RD)
Bit 13	White (WH) - Green (GN)
Bit 14	Brown (BN) - Green (GN)
Bit 15	White (WH) - Yellow (YE)
Bit 16	Yellow (YE) - Brown (BN)
Bit 17	White (WH) - Grey (GY)
Bit 18	Grey (GY) - Brown (BN)
Bit 19	White (WH) - Pink (PK)
Bit 20	Pink (PK) - Brown (BN)
Bit 21	White (WH) - Blue (BU)
Bit 22	Brown (BN) - Blue (BU)
Bit 23	White (WH) - Red (RD)
Bit 24	Brown (BN) - Red (RD)
Bit 25	White (WH) - Black (BK)

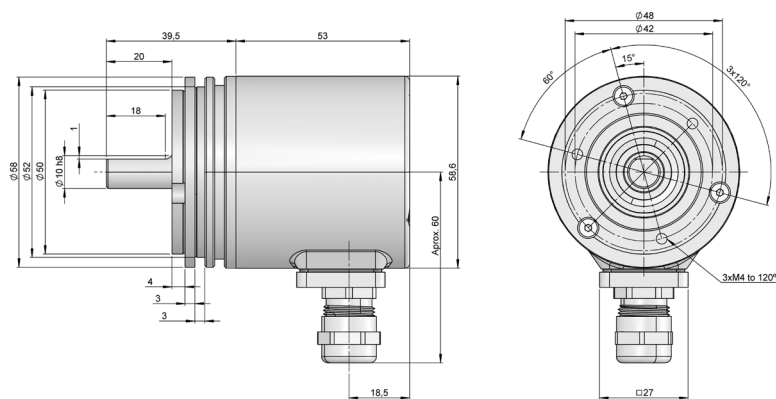
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FLANGE DIMENSIONS

Flange 2
90.1102



Flange 3
90.1005

