CIO58T - Optical Incremental Encoder Ø58 mm - Through shaft

Technical characteristics

Supply and output signal Resolution Max. admissible velocity Max. continuous velocity Material

Protection class Connection

Weight Operating temperature Storage temperature 4.75 to 32 Vdc – Push-Pull (RS422 compatible) 1 to 100 000 PPR 12000 turns/min 9000 turns/min Body and cover - Aluminum (RohS) Shaft - stainless steel IP65 (IP67 optional) Male connector M23 – 12 pins (clockwise) PVC cable - 8 wires approx. 300 g -20°C ... +100°C -40°C ... +100°C



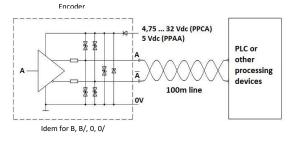
Ordering reference

CIO58T_14A – PP	CA – 001	024 – AA	A1 - A	0
			— —	—
Model				
CIO58T_				
Shaft diameter				
06 = Through shaft Ø6 mm				
08 = Through shaft Ø8 mm				
10 = Through shaft Ø10 mm				
12 = Through shaft Ø12 mm				
14= Through shaft Ø14 mm15= Through shaft Ø15 mm				
Other : please consult us				
Clamp orientation				
A = Clamp on the front B = Clamp on the rear				
Output signals				
PP = Push-Pull output - RS422 compatible				
Supply				
C = 4.75 to 32Vdc				
Channel options				
A = A, B, 0, /A, /B, /0 (A & B gated) (standard)				
Other : please consult us				
Resolution				
1 to 100 000 PPR				
Connection				
A = M23 - 12 pins (clockwise)				
G = PVC cable - 8 wires				
Other : please consult us				
Orientation				
R = Radial				
Connection type				
1 = Standard (please refer to the connection table)				
Other : please consult us				
Cable length (for G type connection)				
/xx = for example /03 for 3m long cable				
Mechanical options				
A = None				
B = IP67 protection				
Electronical options				
0 = None				

Electrical characteristics

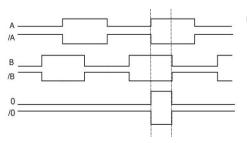
PPCA electronics

Output stage: Push-Pull – compatible RS422 Power supply: 4.75 ... 32Vdc Consumption without load: at 5Vdc = 250 mA at 12Vdc = 55 mA at 24Vdc = 30 mA at 32Vdc = 25 mA Protected against over-voltage, polarity inversion and overcurrent



Output signals

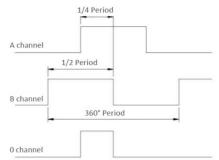
A & B gated (standard)



B channel (rising edge) before A channel in CW direction, seen on the axis on the threaded side of the base.

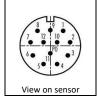


Signal tolerances



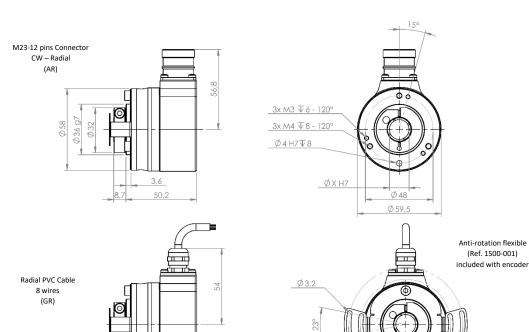
Standard connection (Type 1)

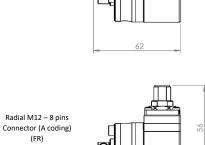
Standard connection	M23 12 pins (CW direction)	Cable – 8 wires
Supply -	1	White
Supply +	2	Brown
Channel A	3	Green
Channel B	4	Yellow
Channel 0	5	Grey
Channel A/	6	Pink
Channel B/	7	Blue
Channel 0/	8	Red
nc	9-10-11-12	/
		,

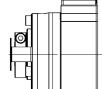


Period: electrical 360° Duty cycle: 180° ± 10% Phase shift: 90° ± 25% Starting time: less than 100ms

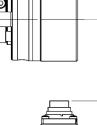


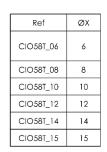






Radial M16 – 8 pins (DIN) Connector (DR)





Ø64 Ø81

