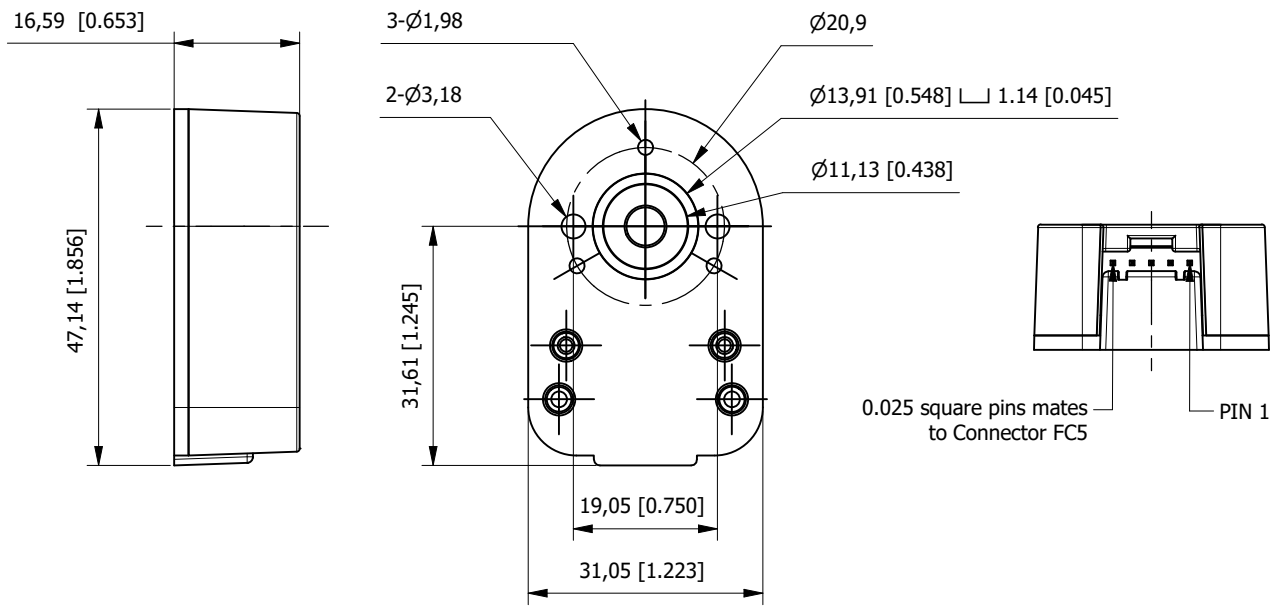


Incremental Encoder E5

Optical - 3 channel



Specification		E5-100	E5-200	E5-400	E5-500	E5-1024	E5-4096
Model		E5-100	E5-200	E5-400	E5-500	E5-1024	E5-4096
Cycles per revolution	CPR	100	200	400	500	1024	4096
Number of channels		2 + index*	2 + index*	2 + index*	2 + index*	2 + index*	2 + index*
Max. Frequency	kHz	300	300	300	300	300	720
Max. Speed	rpm	60'000	60'000	45'000	36'000	17'575	10'546

Available CPR: 32,50, 96, 100, 192, 200, 250, 256, 360, 400, 500, 512, 540, 720, 800, 900, 1000, 1024, 1250, 2000, 2048, 2500, 4000, 4096, 5000

Available with different bore options to suit all our motors

* optional

Electrical Specification		Single-Ended	Differential
Supply Voltage	V	5 ±10%	5 ±10%
Supply Current (CPR <500, no load)	mA	27-33	29-36
Supply Current (CPR ≥500 and <2000, no load)	mA	54-62	56-65
Supply Current (CPR ≥2000, no load)	mA	72-85	74-88
Low Level Input	V _{max}	0,5	0,4
High Level Input	V _{min}	2	2,4
Output Rise Time (CPR <2000, no load)	ns	110	≤20
Output Rise Time (CPR ≥2000, ±5mA load)	ns	50	≤20
Output Fall Time (CPR <2000, no load)	ns	100	≤20
Output Fall Time (CPR ≥2000, ±5mA load)	ns	50	≤20
Phase shift	°e	90 ±60	90 ±60

Connection		
Pin	Single-Ended	Differential
1	Ground	Ground
2	Index	Ground
3	A channel	Index-
4	+5VDC power	Index+
5	B channel	A- channel
6		A+ channel
7		+5VDC power
8		+5VDC power
9		B- channel
10		B+ channel
Mating Connector	CON-FC5	CON-FC10

Available with different cable options

Characteristics	
Item	
Operating Temperature (CPR <2000)	°C -40° to 100°
Operating Temperature (CPR ≥2000)	°C -25° to 100°
Max. Shaft Axial Play	mm ±0,254
Max. Shaft Run out	mm 0,1 T.I.R.
Max. Acceleration	rad/s ² 250'000
Codewheel Moment of Inertia	gcm ² 0,565
Minimum Shaft Length	mm 11,3
Maximum Shaft Length	mm 19,05