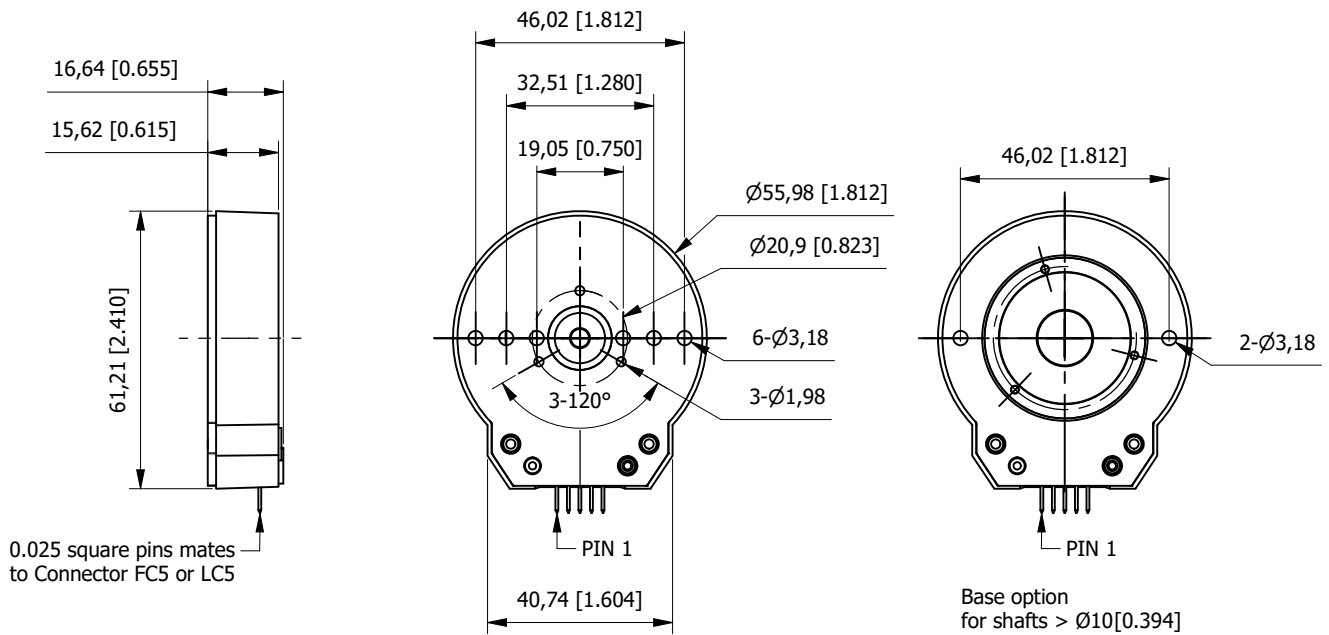


Incremental Encoder E3

Optical - 3 channel



Specification

Model		E3-100	E3-500	E3-1024	E3-2500	E3-4096	E3-8000
Cycles per revolution	CPR	100	500	1024	2500	4096	8000
Number of channels		2 + index*	2 + index*	2 + index*	2 + index*	2 + index*	2 + index*
Max. Frequency	kHz	300	300	300	300	300	300
Max. Speed	rpm	60'000	36'000	17'575	7'200	5'273	5'400

Available CPR: 64, 100, 200, 400, 500, 512, 1000, 1024, 1800, 2000, 2048, 2500, 3600, 4000, 4096, 5000, 7200, 8000, 8192, 10000

Available with different bore options to suit all our motors

* optional

Electrical Specification

Item		
Supply Voltage	V	5 ±10%
Supply Current (CPR ≤1000, no load)	mA	27-33
Supply Current (CPR ≥1000 and <3600, no load)	mA	54-62
Supply Current (CPR ≥3600, no load)	mA	72-85
Low Level Input	V _{max}	0,5
High Level Input	V _{min}	2
Output Rise Time (CPR <3600)	ns	110
Output Rise Time (CPR ≥3600)	ns	50
Output Fall Time (CPR <3600)	ns	35
Output Fall Time (CPR ≥3600)	ns	50
Phase shift	°e	90 ±60

Connection

Pin	
1	Ground
2	Index
3	A channel
4	+5VDC power
5	B channel
Mating Connector	CON-C5 or CON-LC5

Available with different cable options

Characteristics

Item		
Operating Temperature (CPR <3600)	°C	-40° to 100°
Operating Temperature (CPR ≥3600)	°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 (bore <12mm)	gcm ²	6,285
Codewheel Moment of Inertia (bore ≥12mm)	gcm ²	28,246
Minimum Shaft Length	mm	11,3
Maximum Shaft Length	mm	17,02