Series ETI25 – singleturn, incremental output, not redundant

Key features ETI25:

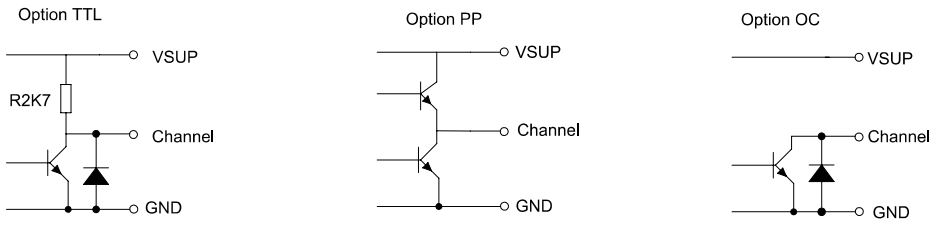
- Channels: A, B and index signal Z
- TTL, Push Pull or Open Collector electronics
- Maximum number of pulses per channel 1024 pulses per revolution (4096 steps)
- Option: ex works programmable number of pulses from 1 to 128 ppr in one pulse step-width, as well as 256, 512, 1024 ppr

Electrical data ETI25 – singleturn, incremental output, not redundant

Output Signal	TTL	Push-Pull	Open Collector
Number of pulses	1 to 128 ppr, 256, 512, 1024 ppr		1 to 128 ppr, 256 ppr.
Limit frequency	100 kHz		10 kHz
Switch-on delay	20 ms		
Supply voltage	3.3 or 5 VDC ±10%	10 to 30 V	10 to 30 V
Power consumption (no load)	≤ 15 mA	≤ 50 mA	≤ 25 mA
Output load	≥ 5 kOhm		
Max. pull-up voltage	-		30 VDC
Insulation voltage 1.)	1000 VAC @ 50 Hz, 1 min		
Insulation resistance 1.)	2 MOhm @ 500 VDC, 1 min		
MTTF (EN29500-2005-1)	473a	462a	570a

1.) According to IEC 60393

Output circuit ETI25 per channel



For details on zero point definition and output programming see page 28.

Order Code ETI25 – singleturn, incremental output								
Description	Selection: standard=**black/bold**, possible options=*grey/italic*							
Series	**ETI25**							
Shaft diameter, shaft length: **Shaft diameter Ø 6 mm, shaft length 22 mm** *Shaft diameter Ø 6.35 mm, shaft length 22 mm* *Custom shaft dimensions [mm] Ø ≤ 6.35 mm*		**6x22** *6,35x22* *XxXX*						
Number of pulses (ppr): *32* *64* *128* *256* *512* *(only for TTL and push-pull)* **1024** **(only for TTL and push-pull)** *User-defined number of pulses 1 to 128, increment 1 pulse*			*32* *64* *128* *256* *512* **1024** *0XXX*					
Supply voltage / output signal: **VSUP=24 V (10 to 30 V) / OUT=push-pull A, B, Z** **VSUP=5 V ± 10% / OUT=TTL A, B, Z** **VSUP=24 V (10 to 30 V) / OUT=open collector A, B, Z**				**24BZPP** **05BZTTL** **24BZOC**				
Operational Torque: **Standard torque** *Improved/medium torque*					**-** *MT*			
Shaft sealing: **None** *With shaft sealing*						- *D*		
Electrical connection, cable length: *Solder holes* *(not for UVW)* *Clamping terminals* *(not for UVW)* **Flat ribbon cable, standard length 0.15 m** *(not for UVW)* *Flat ribbon cable with custom length [x,xx m]* *(not for UVW)* **Round cable, standard length 1 m** *Round cable with custom length [x,xx m]*							*L* *K* **F0,15** *FX,XX* **R1,00** *RX,XX*	
Anti-rotation pin, zero point definition: **Pin A** **Pin B** *None (pins removed)* *(no zero point definition possible)*								**A** **B** -

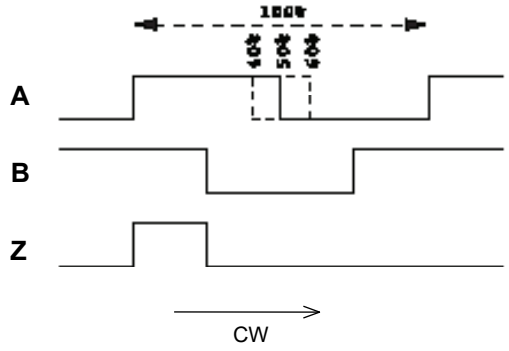
Order example ETI25 – singleturn, incremental output
Requirement: Shaft Ø 6.00 mm, shaft length 22 mm, number of pulses 1024 TTL output, VSUP=5 V/TTL, no shaft sealing, round cable 1,20 m, anti-rotation pin AB
Example for order code: ETI25 6x22 1024 05BZTTL R1,20B

Cable and pin assignments – (option 24BZPP, 05BZTTL and 24BZOC)

Solder holes (option L) and clamping terminals (option K)		Flat ribbon cable (option F)			Round signal cable (option R)	
Pin	**PP, TLL, OC**	**Lead**	**TTL, OC**	**push-pull (PP)**	**Wire colour**	**PP, TTL, OC**
PIN 1	VSUP	Lead 1 (red)	VSUP	VSUP	red	VSUP
PIN 2	GND	Lead 2	GND	Z	black	GND
PIN 3	A	Lead 3	A	B	brown	A
PIN 4	B	Lead 4	B	A	orange	B
PIN 5	Z	Lead 5	Z	GND	yellow	Z
					green	n/c

Signal details

A, B, Z (Standard)



The percentage information describes the proportion of a pulse in dependency to the duration of one period