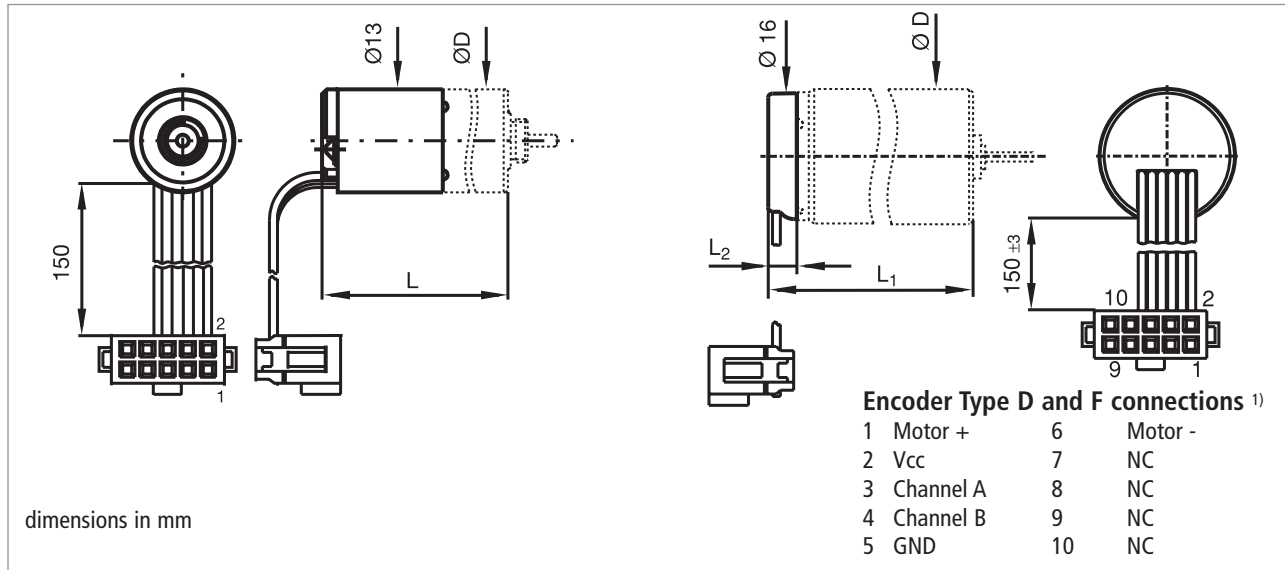
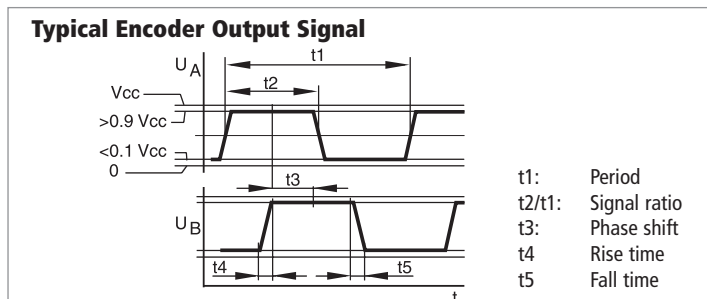


escap Type D / Type F

Integrated Magnetic Encoders



Characteristics at 22°C			D	F		
Number of pulses per rev			12	16		
Supply voltage	Vcc	V	5	3.5...15		
Supply current	typical at 5 V	mA	4	6		
Rise time	t4	µs	0.125	5		
Fall time	t5	µs	0.05	0.2		
Output signal ²⁾			Two channels / square wave in quadrature			
Electrical phase shift between U1 and U2	t3/t1 x 360	degree	90 ± 40			
Signal ratio ³⁾	t2/t1	%	50 ± 25			
Max. count frequency		kHz	10	15		
Operating temperature range			°C -20...+85			
Inertia			10 ⁻⁷ x kgm ² 0.1			
Measuring conditions			Temperature	°C 22		
			Supply voltage	V 5		
			Load resistance	Mohm 1		
			Load capacity	pF 25		
Encoder F available on motor types	16C	16N	17S	17N	22N	22V
L1 = length (mm)	18.6	30	20	28.9	34	36.3
L2 = length (mm)	3,6	3.6	3.6	3.6	3.1	3.1
D = motor diameter (mm)	16	16	17	17	22	22
Encoder D available on motor types	13N	P110.19				
L = length (mm)	40.4	31.2	31.2	31.2	31.2	31.2
D = motor diameter (mm)	13	16	16	16	16	16



- 1) Connector Dupont type Quikie II or equivalent
- 2) Internal pull-up resistor: 10 kohm only available with the F type encoder
- 3) Over the entire frequency and temperature range