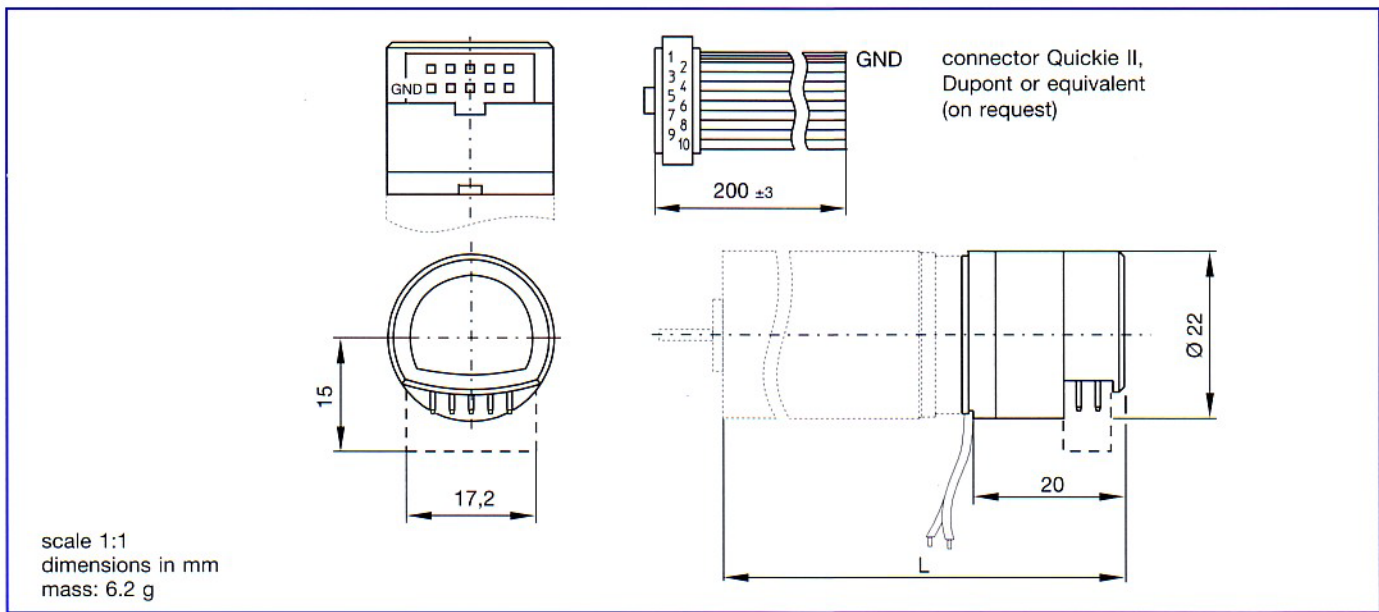


3 channel optical encoder



Characteristics at 22 °C

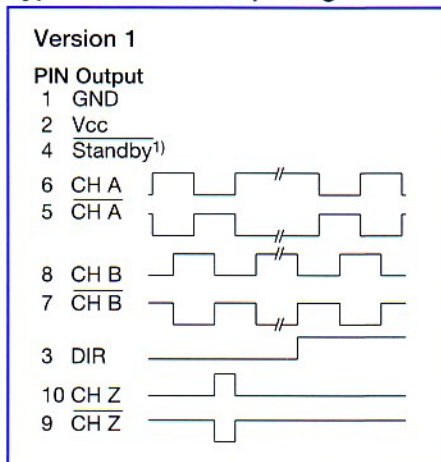
1	Number of lines available			100, 144, 200, 256, 360, 500 ¹⁾
2	Supply current	typical	mA	10
		max.	mA	20
		stand-by	µA	50
3	Output signal		CMOS	compatible
4	Electrical phase shift between A and B		degree	90 ± 20
5	Duty cycle		%	50 ± 10
6	Max. count frequency		kHz	200
7	Operating temperature range	at 90% humidity	°C	-40 to +100
8	Code wheel moment of inertia		10 ⁻⁷ x kgm ²	0.12
9	Supply voltage	Vcc	V	5 ± 10%

Pin out	1	2	3	4	5	6	7	8	9	10
10 Version 1	GND	Vcc	dir.	stand-by	\bar{A}	A	\bar{B}	B	\bar{Z}	Z

Available on motor types	22N48	22V48	23LT12	23DT12	23V48	26N48	28DT12	35NT82
11 L = length (mm)	53.9	56.2	57.6	71	67.6	62.1	85.1	84
12 see page	16	18	19	19	20	21	23	24

¹⁾ ask for a 2R motor type for use with the E9 in 500 lines version

Typical encoder output signal



Features

- 2 channel quadrature output and index pulse
- small size
- integrated direction of rotation detection
- stand-by function with latched state of channels (to deactivate the stand-by mode, connect the pin 4 to the +5V)
- complementary outputs
- up/down pulse signals (on request)
- CMOS compatible.
 - ¹⁾ The input Standby has to be connected to 0 V_{DC} or +5 V_{DC}
- single 5V_{DC} supply