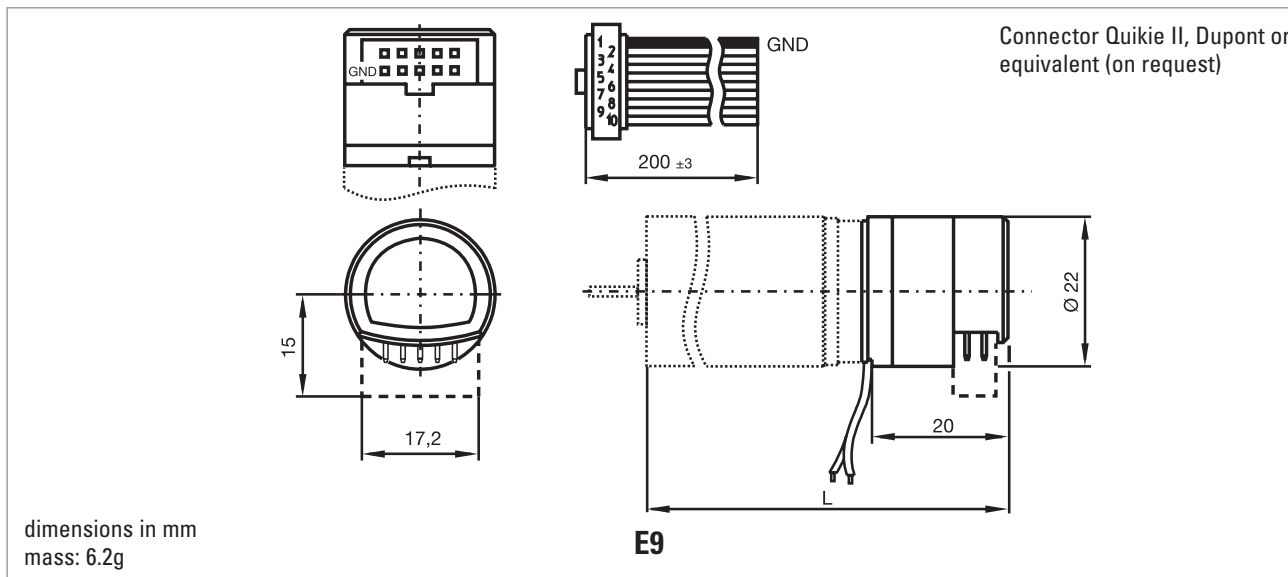


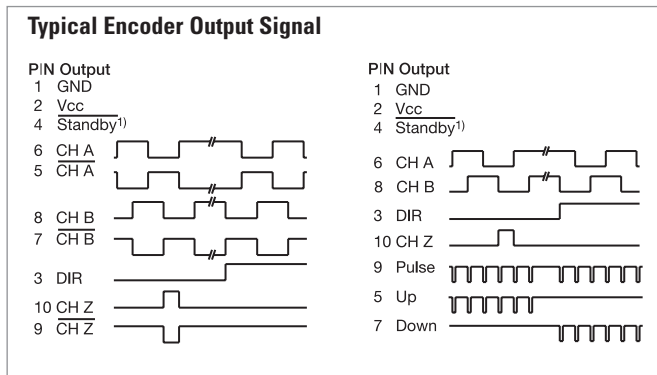
**Encoder E9**  
3 Channel Optical Encoder



**Characteristics at 22°C**

<b>Number of lines available</b>	<b>100, 144, 200, 500<sup>1)</sup></b>										
<b>Supply current</b>	typical									mA	10
	max									mA	20
	stand-by									µA	50
<b>Output signal</b>									CMOS	compatible	
<b>Electrical phase shift between A and B</b>									degree	90 ± 20	
<b>Duty cycle</b>									%	50 ± 10	
<b>Max. count frequency</b>									kHz	200	
<b>Operating temperature range</b>	at 90% humidity								°C	-40 to + 85	
<b>Code wheel moment of inertia</b>									10 <sup>-7</sup> x kgm <sup>2</sup>	0.12	
<b>Supply voltage</b>	Vcc								V	5 ± 10%	
<b>Pin Out</b>	1	2	3	4	5	6	7	8	9	10	
<b>Version 1</b>	GND	Vcc	dir.	stand-by	A	A	B	B	Z	Z	
<b>Version 2</b>	GND	Vcc	dir.	stand-by	up	A	down	B	pulse	Z	
	<b>13 BC</b>	<b>16 BS</b>	<b>16BL</b>	<b>22BS</b>	<b>22BM</b>	<b>22BL</b>					
<b>Available on Motor Types</b>	<b>22N48</b>	<b>22V48</b>	<b>23GST82</b>	<b>23V48</b>	<b>25GST/GT</b>	<b>26N48</b>	<b>28L18</b>	<b>28LT12</b>	<b>28DT12</b>	<b>30GT</b>	<b>35NT32</b>
<b>L = length (mm)</b>	53.9	56.2	58.5	67.6	84.10/72.50	62.1	61.5	61.2	85.1	89.6	84
<b>Page #</b>	59	60	63	62	64/65	66	67	68	70	71	72/73

1) ask for a 2R motor type for use with the E9 in 500 lines; other number of lines on request ; other number of lines on request  
 2) E9 Encoder is available for P530, P532, P850 and P852 models. Visit [www.portescap.com](http://www.portescap.com) for product details.  
 3) Dimensions with brushless motors not given. Visit [www.portescap.com](http://www.portescap.com) for product details.



- Features**
- 2 channel quadrature output and index pulse
  - Small size
  - Integrated direction of rotation detection
  - Stand-by function with latched state of channels (to de-activate the stand-by mode, connect the pin 4 to the ±5V)
  - Complimentary outputs
  - Up/down pulse signals (on request)
  - CMOS compatible.  
to 0 V DC or +5V DC
  - Single 5V DC supply
- <sup>1)</sup> The input stand-by has to be connected