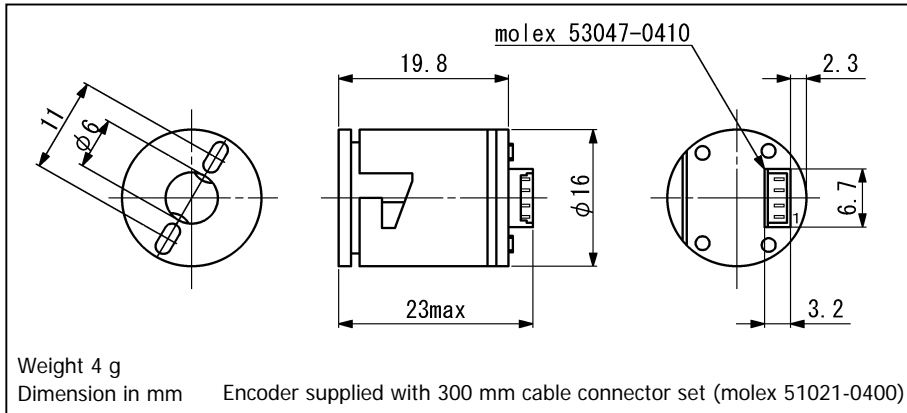
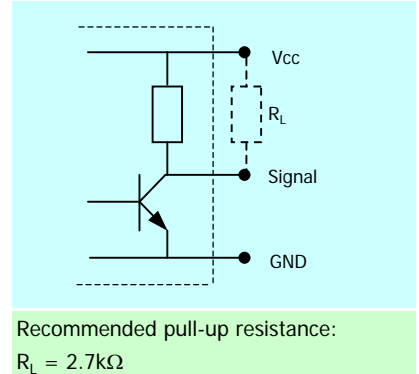


# ME16

## 2 channels reflective optical incremental encoder



### Output circuit

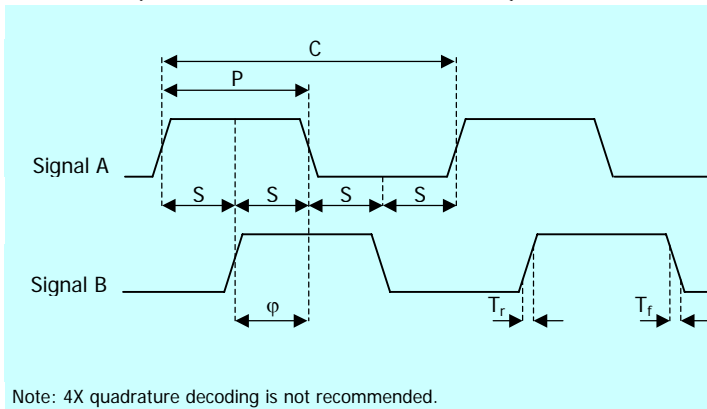


For combination with motors: SCL16-29, SCL16-34

### Specifications at 25°C

	ME16		
Voltage supply, Vcc	4.5...5.5		V
Current consumption, typical	18		mA
Output voltage "H"	$\geq 2.4$ (max. Vcc)		V
Output voltage "L"	$\leq 0.4$		V
Output current per channel	$\leq 5$		mA
Rise and fall time ( $R_L = 2.7k\Omega$ and $C_L = 25pF$ ), typical	$T_r = 150, T_f = 50$		ns
Inertia	2.34		gmm <sup>2</sup>
Max. frequency response	15		kHz
Operating temperature	-10...+85		°C
Storage temperature	-40...+85		°C
Order code and resolution (max. encoder speed = 12000 rpm)	A	75	pulses/rev
Order code and resolution (max. encoder speed = 6000 rpm)	B	150	pulses/rev
Order code and resolution (max. encoder speed = 5625 rpm)	C	160	pulses/rev
Order code and resolution (max. encoder speed = 4500 rpm)	D	200	pulses/rev

### Wave form (for motor shaft clockwise rotation)



### Output signal information

Cycle, C	$360 \pm 75$ °e
Pulse width, P	$180 \pm 75$ °e
A to B channel phase shift, φ	$90 \pm 60$ °e
Logic state width, S	$90 \pm 60$ °e

\*Maximal error ( $\pm$ °e) indicated above.

### Electrical connections

Pin 1	Vcc
Pin 2	Ch. A
Pin 3	GND
Pin 4	Ch. B

### Length with motor:

SCL16-29 = 48.5 mm (max.)

SCL16-34 = 54 mm (max.)

### Ordering example

SCL16-2915E2A corresponds to:

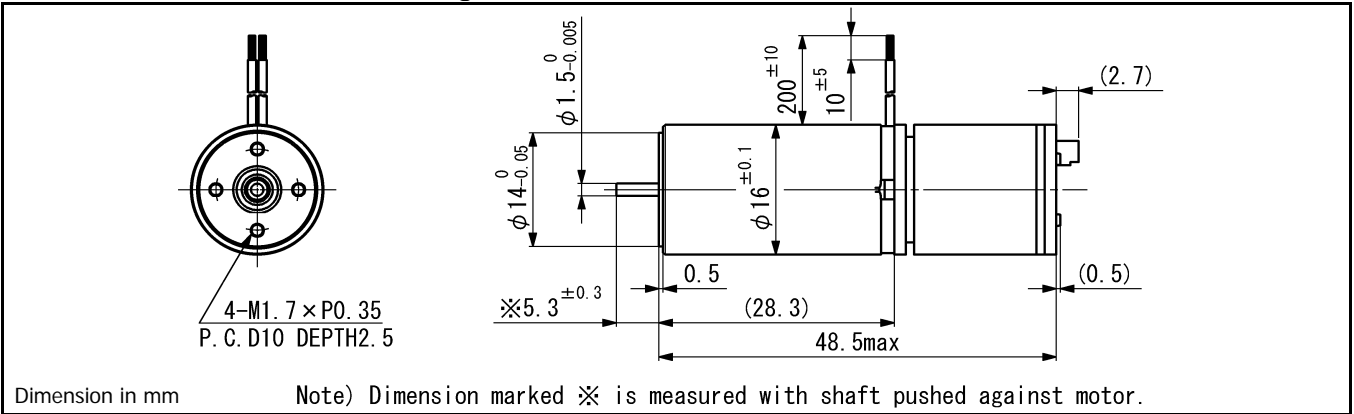
Motor SCL16-2915 +

ME16 (2 channels, 75 pulses/rev)

# ME16

2 channels reflective optical incremental encoder

## SCL16-29...E Dimensional Drawing



## SCL16-34...E Dimensional Drawing

