

K35

Specification

Mechanical

Weight	80 grams
Ball	Polyester or Thermoset Phenolic, 35mm, 1 3/8"
Tracking Force	4 grams Nominal Continuous – No seal (IP40)
Ball load	100N Maximum downward pressure (10 Kg) at 20°C
Ball rotation	Continuous and reversible – any direction
Ball speed	100 RPM max
Housing material	ABS in cream
Transducer	Photo – optical encoders with LED
Mounting Position	Horizontal to 30°

Electrical

Standard output connector	160 mm ribbon cable to 9 way Panduit CE100F24-9 or Amp equivalent
Mating Connector	Panduit 9 way 2.54mm (0.1") header.
Resolution	117 pulses per ball revolution (Other options available upon request)
Switches	Optional 3 built in switches
Supply Voltage	5 V DC +/- 5%
Supply current	6 mA typical

Environmental

Operating temperature	0°C to +70°C
Storage temperature	-25°C to + 85 °C
Humidity	30% min, 95% max, non condensing
Vibration	5G, 2-5 KHz any plane
Shock	100G's – duration 11mS
Lifetime	> 5 million ball revolutions

Standard Product Options

A Top Plate Sealing 1 No seal in top plate (IP40)	B Electrical Output 0 Quadrature	C Integrated Switches 0 No switches 3 Three switches
D Mounting 1 Mount to front of panel	E Top Plate / Body Style 3 Three button cream moulded top and body 4 No switch, cream moulded top and body	F Ball Colour 0 Black 7 Ivory

Product Ordering Code K35 – ABCDEF. Please fill in letters A – F using numbers from the table above

Electrical connections

	0
Pin No	Quadrature
1	+5V
2	Switch C
3	Switch B
4	Y2
5	Switch A
6	Y1
7	X2
8	X1
9	0V