Three position single axis thumb controls • non-contacting Hall effect technology



DISTINCTIVE FEATURES

Forward-neutral-reverse operation ON-OFF-ON analog output Choice of 3 actuator colors 3 million lifecycles Panel sealed up to IP67



ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -40 °C to +85 °C (-40 °F to +185 °F)
- Storage Temperature: -40 °C to +85 °C (-40 °F to +185 °F)
- Above Panel Sealing: Up to IP67 (subject to configuration)
- EMC Immunity Level: EN61000-4-3
- EMC Emissions Level: EN61000-6-3: 2001
- ESD: EN61000-4-2



SENSOR SPECIFICATIONS

- Supply Voltage Range: 5.00 VDC ± 0.1 VDC
- Reverse Polarity Max: -10 V
- Transient Overvoltage Max: 16 V
- Minimum load: $1 \text{ K}\Omega$
- Return to Center Voltage Tolerance (POS2): 2.50 VDC ± 0.50 VDC



MECHANICAL SPECIFICATIONS

- Operating Force: 260 g Nominal into position 2 * 360 g Nominal out of position 2 *
- Maximum Vertical Load: 200 N (45 lbf)
- Maximum Horizontal Load: 150 N (33.7lbf)
- Mechanical Angle of Movement: ±25°
- Expected Life: 3 million lifecycles
- Mass/Weight: 18.25 g ± 5.0 g (0.64 oz ±0.18 oz)
- Lever Action (centering): Friction
- * Force applied to the top of the castle cap

The company reserves the right to change specifications without notice.







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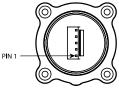
MATERIALS

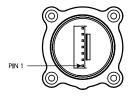
- Body: Glass filled nylon
- Boot: Silicone
- Handles:
- 1, 2,3 Glass filled nylon



CONNECTIONS







PINOUT SPECIFICATION		
	TE 3-647166-5	TE 3-647166-7
Pin 1	Not used	Not used
Pin 2	5 VDC	GND
Pin 3	X (alpha)	X (alpha)
Pin 4	GND	Not used
Pin 5	Not used	Not used
Pin 6	-	5 VDC
Pin 7	-	X (beta)

WIRING SPECIFICATION		
Black	Ground & button common	
Red	Power (5 V)	
Blue	X axis output (alpha)	
Blue/White Stripe	X axis output (beta)	
Red/White Stripe	Power (5 V) (beta)	
Black/White Stripe	Ground (beta)	

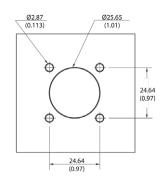
CONNECTOR TERMINATION OPTION

Single output congurations feature a ve position TE 3-647166-5 connector. Dual output congurations feature a seven position TE 3-647166-7 connector. A mating harness is not included, but may be specied for single output congurations at the time of order for an additional charge. The ve function harness is part number 505-499.



PANEL CUT-OUT

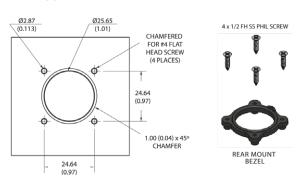
DROP-IN MOUNT





• The under panel depth for the Drop-in configuration is 16.02 mm (0.631 in).

REAR MOUNT

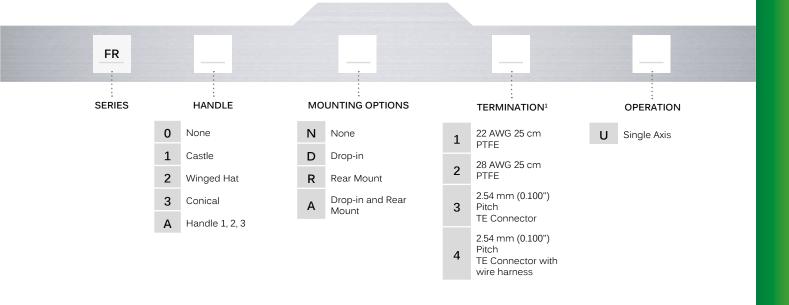


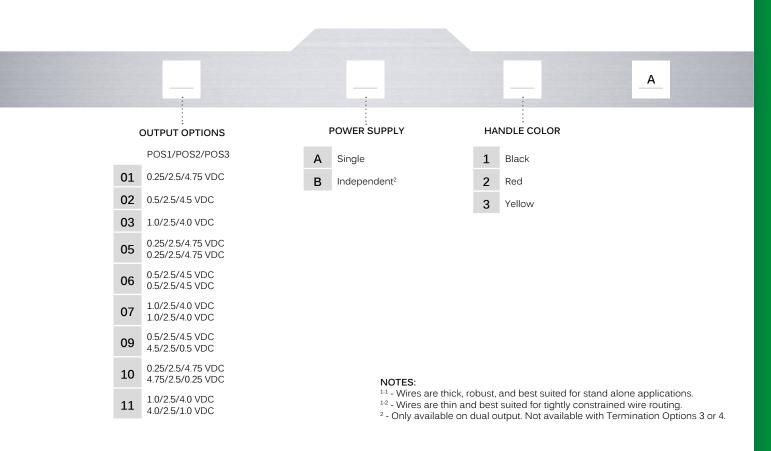
 The maximum panel thickness for the Rear Mount configuration is 2.032 mm (0.08 in).

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BUILD YOUR PART NUMBER





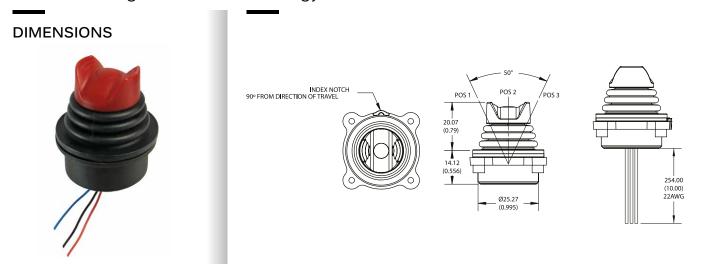


ABOUT THIS SERIES

Mounting accessories: Standard hardware supplied for the Drop-in option: 4 push in connectors, drop-in bezel and an O-ring. Standard hardware supplied for the Rear mount option: 4 x 1/2 FH SS Phil Screws and a rear mount bezel.



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HANDLE OPTIONS

