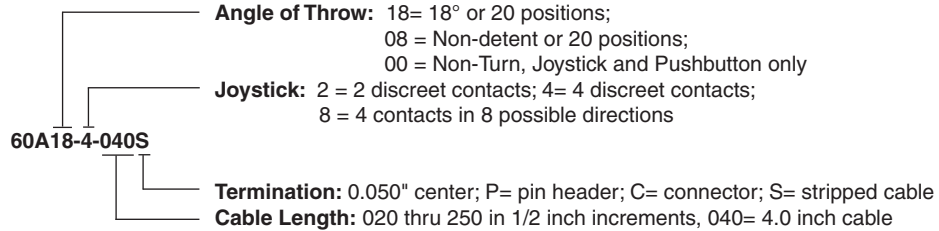




## Series 60A - Space Saving Multi-Function Interface

- 4 or 8 position joystick with center pushbutton
- 20 PPR optical encoder with the option for non-detent
- Minimal depth behind panel (.650-inch)

### PART NUMBER CONFIGURATION - 60A



Perfect for:

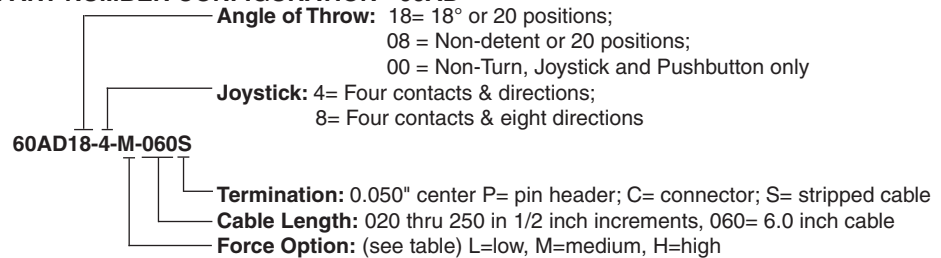


## Series 60AD - Custom Specified Tactile Feedback (Haptics)

- Tactile feedback from dome contacts
- Three levels of joystick, rotary, & pushbutton force

| 60AD FORCE OPTION                   | OPTION    |           |           |
|-------------------------------------|-----------|-----------|-----------|
|                                     | L         | M         | H         |
| 1 ACTUATION FORCE (JOYSTICK) [g]    | 550±200   | 725±200   | 1050±250  |
| 2 ACTUATION FORCE (PUSHBUTTON) [g]  | 625±200   | 800±200   | 1100±250  |
| 3 AVERAGE ROTATIONAL TORQUE [in-oz] | 1.50±0.75 | 3.50±1.75 | 5.00±2.00 |

### PART NUMBER CONFIGURATION - 60AD



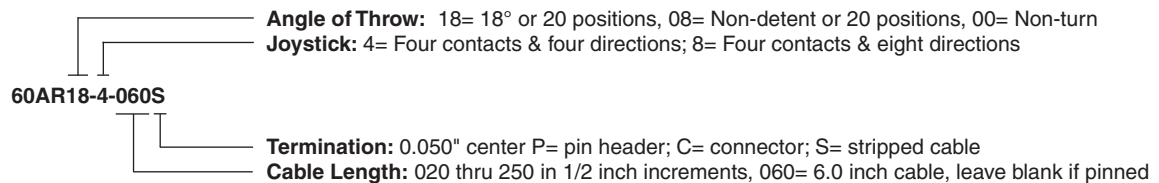
Perfect for:



## Series 60AR - Rugged and Sealed Construction

- Sealed to IP67 for harsh outdoor environments
- Stainless steel shaft improves specification for push, pull and side-load force

### PART NUMBER CONFIGURATION



Perfect for:



## Series 60C - Joystick & Encoder on Concentric Shafts

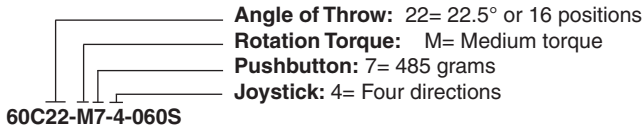
- Independent joystick & encoder functions: joystick does not rotate to allow legends to stay oriented
- Joystick is on the center shaft with the integrated pushbutton
- Encoder is on outer shaft
- Compact packaging enables the efficient navigation of complex menus while consuming minimal panel space



Perfect for:



### PART NUMBER CONFIGURATION



Termination: 0.050" center ribbon cable with; C= Connector; S= 0.1" stripped end  
 Cable Length: 025 thru 250 in 1/2 inch increments, 060= 6.0 inch cable

# Joysticks



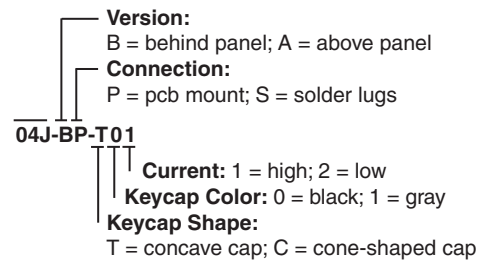
Perfect for:



## Series 04J Joystick

- Threaded shaft with versions for above or behind panel mounting
- Joystick - minimum 100,000 cycles through all positions
- Water / Moisture Resistant (tested to IP67)
- Keycap options including shapes and colors
- Pushbutton - minimum 100,000 actuations
- Mechanical Shock Resistant

### PART NUMBER CONFIGURATION



## Coming soon!



## Series 67B Hall-Effect Joystick

- Optional user interface outputs available
- Proportional output
- Shaft and panel sealed
- Customizable

Perfect for:



Optional rotary and pushbutton control and detent/feel available. Please contact your local Grayhill representative for more information or visit us at [www.grayhill.com/joysticks](http://www.grayhill.com/joysticks)