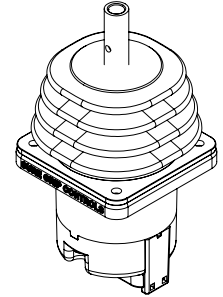






## Preliminary Specifications



### Electrical Specifications

Supply Voltage	10-36 VDC
Supply Current	30 mA
Source Address	0x00 to 0xFD

### Mechanical Specifications

Travel	± 20°
Life Expectancy	5 million cycles (20 million operations)
Operating Force	1.8 to 2.8 lbs.
Side Loading	110 Nm
Gate	Square

### Environmental Specifications

Operating Temperature	-40°C (-40°F) and +85°C (185°F)
Sealing	IP69K (IP67 below panel)
Vibration	10Hz to 2KHz 1.26Grms (IEC 60068-2-4)
Shock	25G for 11mS all directions (IEC 60068-2-27)
EMC Immunity	125V/m (ISO 11452-2)
EMC Emissions	CISPR 25 Class 2
ESD Immunity	ISO 10605: 2008 (+/- 8kV Operational, +/- 15kV Handling)

*Specifications are subject to change without notice*

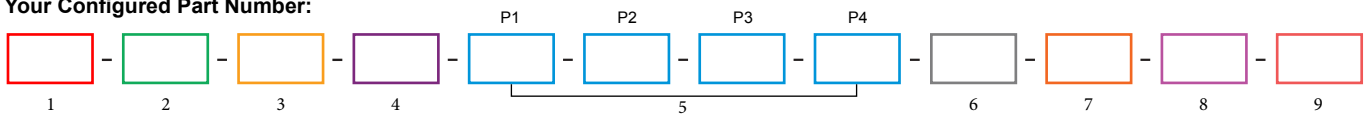
## Product Ordering Guide

### Instructions

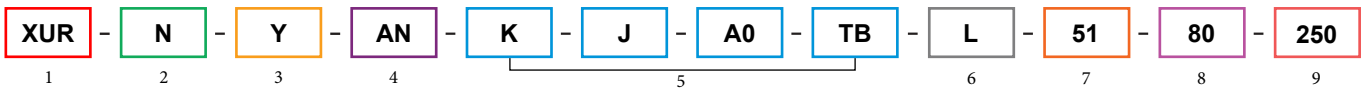


1. Each box has a color and number, which corresponds to joystick options below. Please review each option, as this will help you with choosing your part number. (Refer to our technical guides for more information on product options)
2. If a desired joystick option is not available contact a sales representative to discuss if there are alternative solutions for your application.
3. Enter your configured part number in the empty boxes provided below and contact a friendly Sure Grip sales representative to place your order.

#### Your Configured Part Number:



#### Example Configuration:



**1. Handle Type**  
 XUL - Left Hand Handle  
 XUR - Right Hand Handle

**2. Dual Redundancy**  
 N - None  
 P - Proportional Dual Redundancy

**3. Operators Presence**  
 N - None  
 Y - Operators Presence Installed

**4. Trigger Options**  
 NN - None  
 AN - Trigger, Double, 2Ma, Switched  
 BN - Trigger, Double, 3Ma, Switched  
 DN - Trigger, Double, 3Mo, Switched  
 PN - Trigger, Single, 2Mo, Proportional  
 SN - Trigger, Single, 2Mo, Switched  
 GN - Trigger, Double, 3Mo, Proportional

**5. Function Types (P1-P4)**  
 N - None  
 Ax - Mo Switch, 1 Btn, RGB LED  
 Bx - Mo Switch, 2 Btns, RGB LED  
 P - Rocker Module, 2Ma, Switched  
 Q - Rocker Module, 3Ma, Switched  
 R - Rocker Module, 3MaMo, Switched  
 S - Rocker Module, 3Mo, Proportional  
 M - Rocker Module, 3Mo, Switched  
 U - Slider Module, 1Mo, Proportional  
 K - Slider Module, 3Ma, Proportional  
 J - Slider Module, 3Mo, Proportional  
 L - Slider Module, Friction, Proportional  
 TA - Triangle Grip, 2Ma, Switched  
 TQ - Triangle Grip, 3Ma, Switched  
 TR - Triangle Grip, 3MaMo, Switched  
 TS - Triangle Grip, 3Mo, Proportional  
 TB - Triangle Grip, 3Mo, Switched

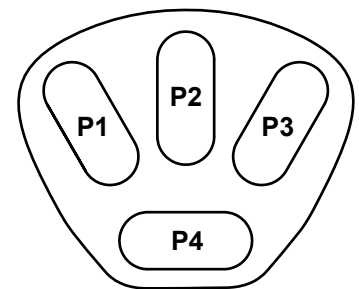
**6. Spring Options**  
 L - Light Force Spring  
 M - Medium Force Spring

**7. Source Address**  
 Source address (Default 51d)  
 Range: 20d - 250d

Mo-Momentary  
 Ma-Maintained

**8. Message Rate**  
 Message rate (Default 80mS)  
 Range: 20mS - 80mS

**9. BAUD Rate**  
 BAUD rate (Default 250Kbps)  
 250Kbps or 500Kbps



Faceplate Location Reference

#### Button Graphic Options

Vertical orientation shown. For faceplate position P4, the graphic options above come in horizontal orientation.

#### Lever Styles