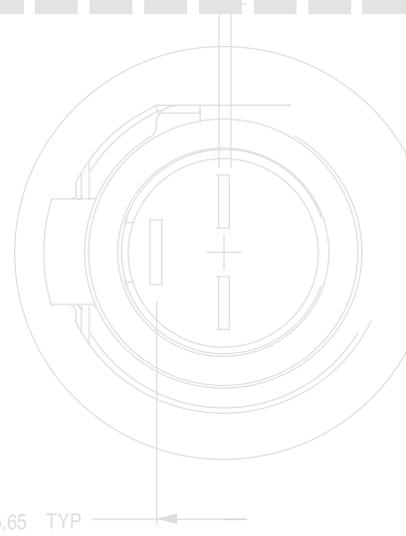


C&K[®]



SENSOR PRODUCT

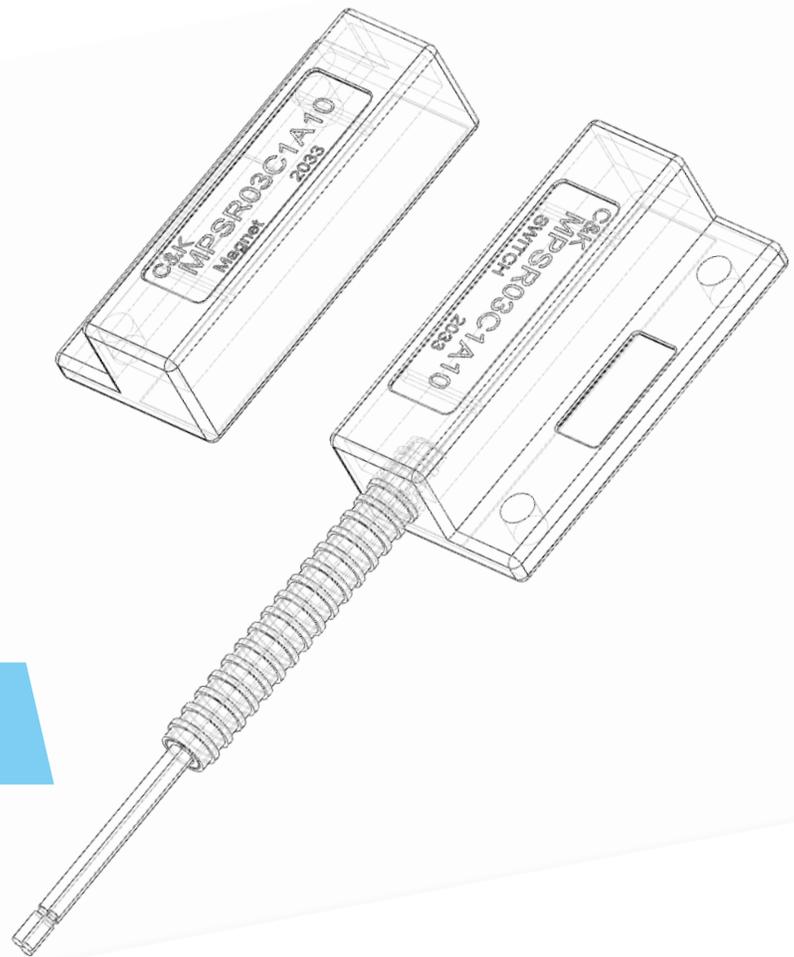
GUIDE

*This product guide contains a selection of
our most popular switches and components.*

			Navigation		
Market	Segment	Application	THB 	MSW 	
Automotive	Infotainment		Interior Light Controls		
			Climate Control		
			Automotive Entertainment Cluster		
	Vehicle Access Systems		Trunk Open/Close Detection		
			Trailer/Container Door Open Detection		
High-End Consumer	Automotive		Gaming Controllers	X	
			Virtual Reality Controllers	X	
			Racing Simulator Controllers	X	
	Aviation		Drone Controllers	X	
			Flight Simulator Controllers	X	X
Industrial	Professional Audio/Video		Pro Audio Controllers		
			Broadcast Studio Robotic Camera Systems		X
			Pro Lighting Controllers		
	Automation		Industrial Robots		X
			Linear Actuators		
			Computer Aided Design & Manufacturing	X	X
	Security		Remote Monitoring		
Window/Door Sensing					
Medical	Devices		Robotic Surgery	X	X
			Automatic Emergency Defibrillators (AEDs)		

Detect				Rotary	
MPS	MPSR	LTS (Rotary)	LTS (Linear)	ENC	ENC W/Screen
					
		X	X	X	X
		X	X	X	X
				X	X
X					
X	X				
				X	X
				X	X
		X	X	X	X
		X	X	X	X
		X	X	X	X
X	X				
X	X				
		X	X	X	X
X	X				
X	X				
X				X	X
				X	X

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PRODUCT SELECTION GUIDE

SENSOR PRODUCTS

C&K's proud history of product innovation continues with sensor solutions ideal for position, proximity sensing, and touch sensing in a wide range of applications. Inherently robust with available IP ratings up to IP69, MPS and MPSR are capable of millions of operations using magnetic actuation to provide contactless detection across hermetic barriers and distances up to 1". They're designed to be easy to install and easily customizable to fit the needs of applications ranging from automotive and industrial to construction, security and anti-tampering, and medical devices. The New LTS Series features capacitive touch control with a wide range of customizable options that will fulfill the demands of audio/video, industrial, automotive and other control applications.



MPS SERIES
Magnetic Proximity Sensors

Features / Benefits

- Long life - 4M operations
- Sealed contacts
- Quality construction
- UL61058
- Quick & easy installation

Typical Applications

- Remote Monitoring
- Anti-Tamper Detection
- Security

PART NUMBER

MPS45GW

Function

SPST N.O. subminiature surface mount (adhesive or flange), side exit leads, 1" make gap



MPSR SERIES
Ruggedized Magnetic Proximity Sensors

Features / Benefits

- Long life - 4M+ operations
- Hermetically sealed contacts
- Form C (SPDT) contacts w/ 3 W rating
- IP69 Rating
- Quick & easy installation

Typical Applications

- Remote monitoring
- Anti-tamper detection
- Security

Contact Rating:

200 mA @ 3 W, 30 VDC

PART NUMBER

MPSR03C1A10

MPSR05A1A10

NEW

Function

Form C (SPDT N.O. / N.C.) 3 W / 30 VDC 72" Stainless steel hose w/ bare wire leads

Form A (SPST N.O) 5W / 180 VDC 72" Stainless hose w/bare wire leads

* Contact C&K for custom options availability



LTSR (ROTARY) SERIES
Illuminated Capacitive Touch Sensors

Features / Benefits

- Choice of Encoder or VR Operation Modes
- Scroll Plus Additional Key Output
- Multiple Customizable Sensing Zones
- Multiple Cap Options
- Integrated Illumination
- Capacitive Touch Controls

Typical Applications

- Audio/Video Equipment
- Consumer Products
- IT Equipment
- Communications Equipment
- Appliances
- Lighting & Fan Controls

PART NUMBER

LTSR14V-TXR003K-BPGXXC

NEW

Function & Output

Rotary 14 Position (VR)

One Key Operation

Toggle Mode

Block 1 LED Color

Blue

Block 2 LED Color

Red & Blue

Block 3 LED Color

Green

One Key LED Color

N/A

Termination

Cable & Connection



LTS (LINEAR) SERIES
Illuminated Capacitive Touch Sensors

Features / Benefits

- Choice of Encoder or VR Operation Modes
- Scroll Plus Additional Key Output
- Multiple Customizable Sensing Zones
- Multiple Cap Options
- Integrated Illumination
- Capacitive Touch Controls

Typical Applications

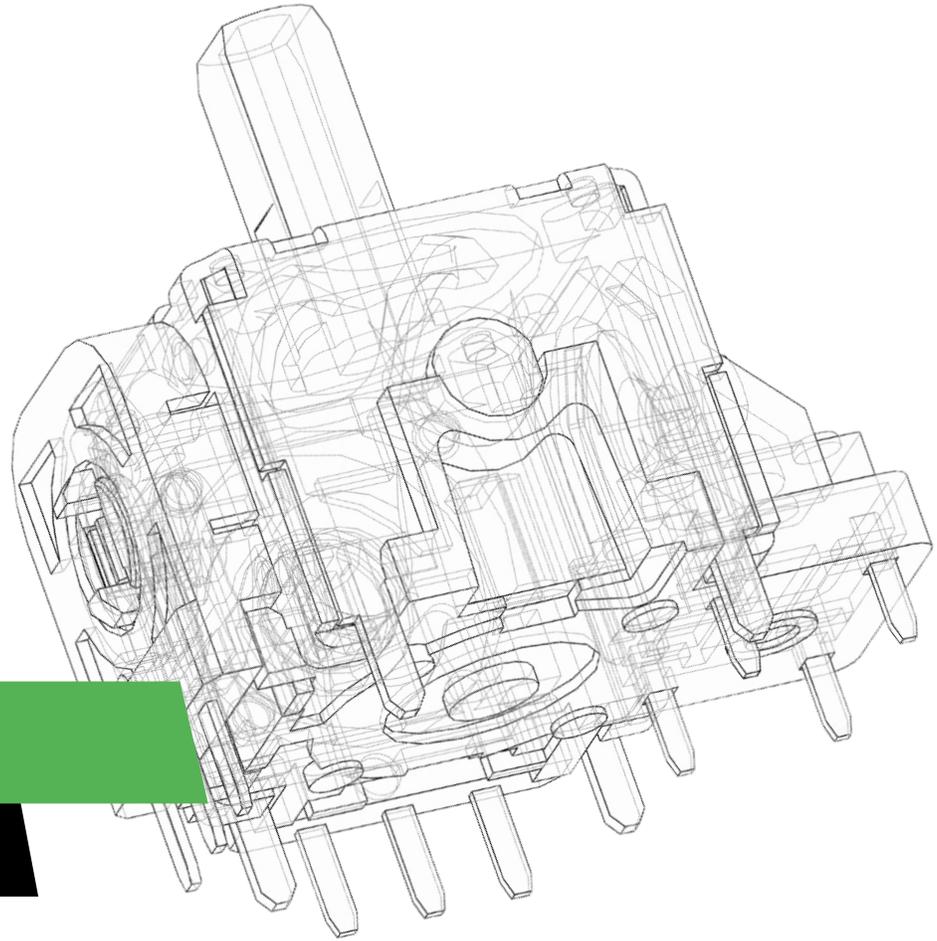
- Audio/Video Equipment
- Consumer Products
- IT Equipment
- Communications Equipment
- Appliances
- Lighting & Fan Controls

PART NUMBER

LTSL15V-TXL004K-YGBPXC

NEW

Function & Output	One Key Operation	Block 1 LED Color	Block 2 LED Color	Block 3 LED Color	One Key LED Color	Termination
Linear 15 Position (VR)	Toggle Mode	Yellow	Green	Blue	Red & Blue	Cable & Connection

**PRODUCT SELECTION GUIDE**

Navigation Sensors

C&K's navigation sensors are miniature, compact and multi-directional products. The THB series dual action 360° joystick is ideal for gaming, drone, and other controllers. The MSW packs three axes of movement and a pushbutton into one device for the ultimate control of robotics or industrial controllers.



THB SERIES
Miniature Thumbstick

Features / Benefits

Higher actuation force
Reduced "Dead Zone" slack & wide angular sweep
Small form factor

Typical Applications

Industrial
High-end consumer
Gaming Controllers
AV Controls

PART NUMBER	Circuit	Mounting Type	Operating Torque	Pushbutton Force	Life Cycle
THB001P	Dual Potentiometer + SPST N.O.	Thru-hole	120 ± 50 gfcM	7 N	2,000,000 cycles for toggle
THB111R NEW	Dual Potentiometer + SPST N.O.	Thru-hole	110 ± 40 gfcM	8 N	1,000,000 Cycles for Toggle
THB211QX NEW	Dual Potentiometer + SPST N.O (No Return to Center X-X Axis)	Thru-hole	140 ± 100 gfcM	7.4 N	2,000,000 Cycles for Toggle



MSW SERIES
Multifunction Hall Effect Joystick

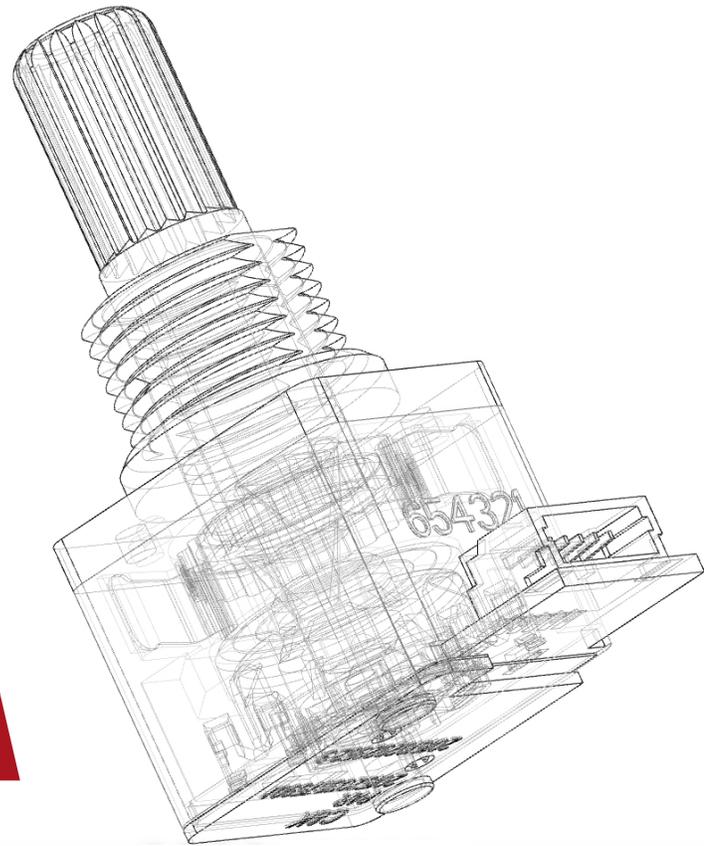
Features / Benefits

Analog Voltage Output for Easy Interfacing
Contactless Hall Effect Sensing for Long Life
Tri-axis Operation
Integrated Pushbutton
Panel Mount for Easy Installation
Cable and Connector Termination

Typical Applications

Industrial Controllers
Robotics
Medical Instruments
AV Equipment

PART NUMBER	Circuit	Mounting Type	Operating Torque	Pushbutton Force	Life Cycle
MSW311P1C NEW	Tri-Axis Analog Voltage Output + SPST N.O	Panel	TBD (X/Y Axis) TBD (Z Axis)	TBD	5,000,000 cycles for X/Y Axis 1,000,000 cycles for Z Axis

**PRODUCT SELECTION GUIDE**

Rotary Encoders

Rotary encoders from C&K are available with variety of indexing options. The ENC Series features easy install connector sockets and integrated pushbutton. The TFT screen provides wide design flexibility for consumer, audio/video, industrial, and other applications.



ENC SERIES
Rotary Encoder

Features / Benefits

Clear detent / haptic feel
Two channel, 2-bit code output
Quadrature (incremental type)
Integrated pushbutton

Typical Applications

Automotive interior control
Industrial equipment
Test & instrumentation
Medical equipment

PART NUMBER	Function	Contact Rating	Rational Torque	Pushbutton Force	Operating Life	Termination
ENCOS16D2S65C	16 position Incremental Encoder	Rotary: 30 mA @ 5 V DC Pushbutton: 10 mA @ 5 V DC	265 gfcm	600 ± 20% gf	300,000 cycles	SMT
ENCOS24D2S65R NEW	24 position Incremental Encoder	Rotary: 30 mA @ 5 V DC Pushbutton: 10 mA @ 5 V DC	265 gfcm	600 ± 20% gf	300,000 cycles	Connector



ENC SERIES
Rotary Encoder

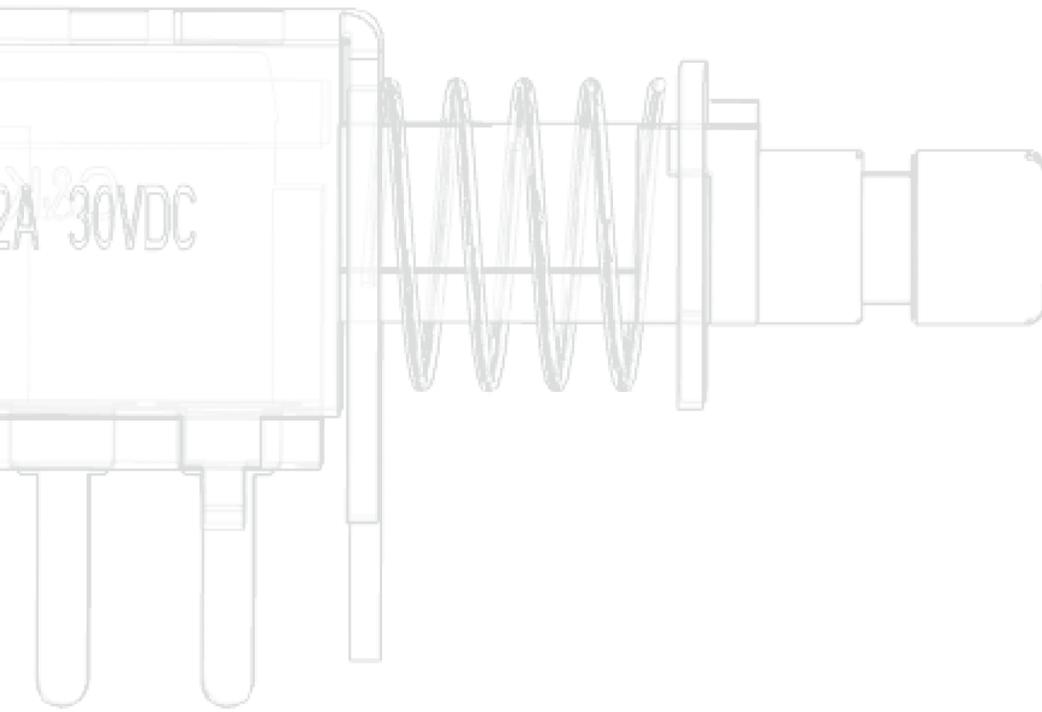
Features / Benefits

Clear detent / haptic feel
Two channel, 2-bit code output
Quadrature (incremental type)
Integrated pushbutton

Typical Applications

Automotive interior control
Industrial equipment
Test & instrumentation
Medical equipment

PART NUMBER	Function	Contact Rating	Rational Torque	Pushbutton Force	Operating Life	Termination
ENCOT24D5SX5T NEW	24 position Incremental Encoder w/screen	Rotary: 30 mA @ 5 V DC Pushbutton: 10 mA @ 5 V DC	450 gfcm	600 ± 20% gf	500,000 cycles	Pin Out



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