



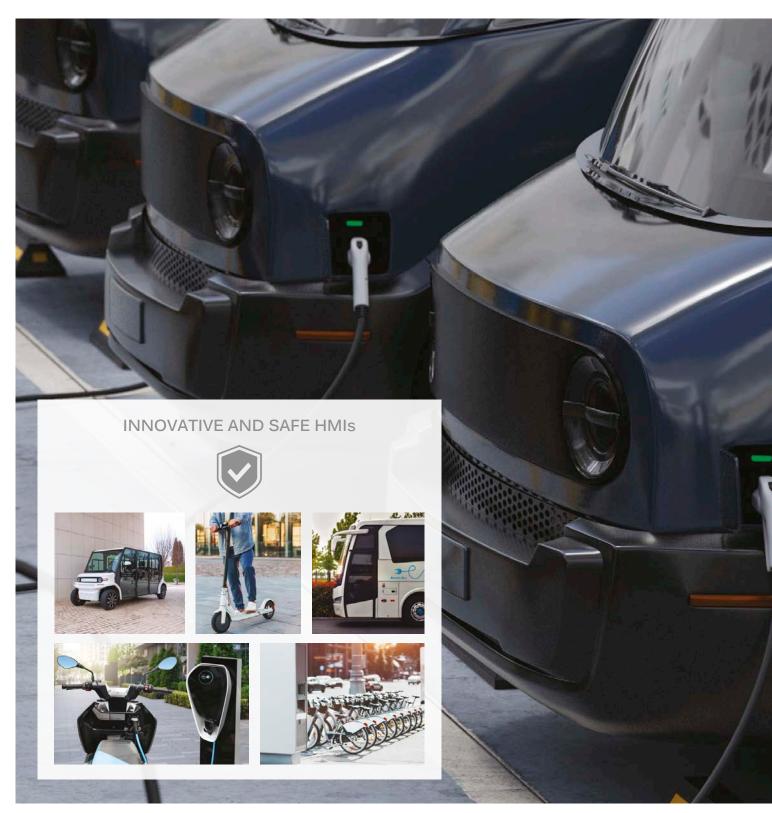




e-TRANSPORTATION

For several years, APEM has been collaborating with startups and large mobility companies. We understand that while budget and time constraints remain, electrification, autonomous driving and shared mobility bring new challenges such as ease of use, connectivity and increased safety.

APEM has developed a unique know-how and offers not only support in the design phases but also one of the broadest ranges of HMI solutions built with pushbuttons, toggle switches, indicators, control panels and joysticks.



A BROAD RANGE OF PRODUCTS AND SOLUTIONS

APEM OFFERS

1 ONE-STOP SHOP HMI SUPPLIER

PANEL SWITCHES

E-STOPS

LED INDICATORS

JOYSTICKS & THUMBWHEELS

PANEL SOLUTIONS



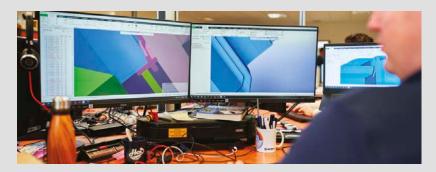








2 CUSTOMER SUPPORT IN THE DEVELOPMENT



APEM has a solid track record of providing technical and user experience support to companies during key design phases. Our knowledge of current and future HMI trends covers several industries. This knowledge puts us in a position to help companies navigate between several constraints and goals.

3 CAPACITY TO BUILD CUSTOM SOLUTIONS

Our teams guide you in designing customized solutions to enhance safety, simplify controls, or integrate advanced functions. Colors, markings, finishes, shapes and dimensions... APEM provides customization for an unlimited combination of possibilities.



YOU HAVE SPECIFIC NEEDS

WE HAVE INNOVATIVE AND SAFE SOLUTIONS



ERGONOMIC AND ROBUST SOLUTIONS

To build user-friendly and long-lasting HMIs

PUSHBUTTONS

Our pushbuttons are designed to provide excellent tactile feeling and withstand the harshest environments. These compact and robust pushbutton switches can be customized to match your application.







CONTROL

Driven by innovation

JOYSTICKS

Discover how our range of joysticks helps mobility professionnals to control an autonomous vehicle during maintenance-related tasks.

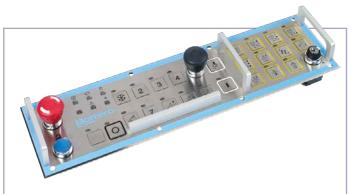


SAFETY

To comply with safety norms

E-STOPS

In the Mobility market, it is essential to be able to stop a vehicle in case of issues. Our e-stops enable anyone to safely stop or disconnect a vehicle.



CUSTOMIZATION

For a simplified & unique experience

CONTROL PANELS

We understand that HMIs must simplify the way operators interact with a vehicle. By leveraging our experience, we can help you build a unique, robust and reliable control panel, perfectly designed for your requirements.

HOW OUR PRODUCTS ARE USED

BICYCLES, SCOOTERS, DOCKING STATIONS, ...



O SERIES LED indicators for good visibility in daylight



AV SERIES Rugged start and stop Metal pushbuttons



PBA SERIES Piezo switches for outdoor environments



FD SERIES Double icon illuminated pushbutton switches



IP SERIES Compact pushbutton switches



QH SERIES Halo LED illumination



CW SERIES Compact thumbwheels



MEC 5G SERIES Microswitches



IX SERIES Compact pushbutton switches



EC SERIES Ultra compact emergency stop switches



DELIVERY VANS, E-BUSES, ...



Designed for easy forward & reverse control



EC SERIES Ultra compact emergency stop switches



PADDLES Used to switch gears



AV SERIES Rugged start and stop metal pushbuttons





KR SERIES Rocker swicthes



HR SERIES Roller available with many options



CW SERIES Compact thumbwheels

AUTONOMOUS SHUTTLES, TRAINS,



IP SERIES Compact pushbutton switches



3000 SERIES Compact, precision hall effect technology for maintenance operations



IX SERIES Compact pushbutton switches





«Safe break action» Technology



Halo LED illumination



Mid-size hall effect joysticks



CW SERIES Compact thumbwheels



CUSTOM SOLUTIONS Tailored-made **HMI** solutions

APEM RELIABILITY

- MOST PRODUCTS SEALED UP TO IP67/IP69K
- PUSHBUTTONS WITH MEMBRANE TO PROTECT AGAINST DUST
- OPERATING TEMPERATURE: -40°C TO +85°C (-40°F TO 185°F)
- E-STOPS WITH REVERSE ENERGY STRUCTURE FOR ADDITIONAL SAFETY
- VERTICALLY INTEGRATED MANUFACTURING



We can support your functional safety requirements to comply with safety norms (ISO26262, ISO13849-1, ...). Many APEM products are suitable for use within a safety-related environment. Some of our products continuously perform self-monitoring against any potential internal failure. Depending on your project, our engineers can provide and explain what we can offer using B10d and MTTFd to meet your SIL or PL requirements.

SOME OF OUR LATEST PROJECTS INCLUDE:

ELECTRIC DELIVERY VANS USED BY SEVERAL EU-BASED POSTAL SERVICES

We supplied the anti vandal AV pushbutton used to secure access to the payload, and the BF paddle to switch engine mode.



AIRPORT AUTONOMOUS SHUTTLES

We provided all the HMIs needed for the engineer and steward panel located inside the vehicle. Products supplied: CW, XA, IP.





ELECTRIC SCOOTERS

We built a custom CANbus keypad with light indicators and display used to unlock a shared electric scooter for ride sharing.



BIKE SHARING STATIONS

We developed a robust and ultra bright piezo switch for daylight use. The switch is used to unlock the bike.

LONG-DISTANCE BUSES

We deliver MEC microswitches and switchguards to a leading EU-based bus manufacturer. Our products have been selected due to their long lifecyle.



ELECTRIC TAXI CABS

We collaborate with one of the few EV taxi manufacturers. Our illuminated IP69K FP pushbutton is used to control a specific function of the vehicle. The manufacturer particularly appreciates its design.





ROAD LEGAL ELECTRIC UTILITY VEHICLES

We provide a leading utility vehicle manufacturer with both the KR rocker switch and I series. Being a one-stop shop for HMIs helps our customer simplify its supply chain.

OUR PRODUCTS

WHETHER IT'S A STANDARD PRODUCT OFFERING OR A CUSTOMIZED SOLUTION, LET APEM PUT ITS DECADES OF e-TRANSPORTATION EXPERIENCE TO WORK FOR YOU.



PANEL SWITCHES **JOYSTICKS AV SERIES** 9 **XP SERIES** 21 METAL PUSHBUTTON MID-SIZE PALM JOYSTICK **PBA SERIES** 10 XD SERIES + RT HANDLE 22 **ROBUST PIEZO SWITCH** HALL EFFECT ROBUST JOYSTICK **FNR SERIES** 11 3000 SERIES 23 FNR ROCKER SWITCH PREMIUM HALL EFFECT JOYSTICK **FD SERIES** 12 **CW SERIES** 24 DOUBLE ICON ILLUMINATED PUSHBUTTON PROPORTIONAL THUMBWHEEL KH SERIES 13 TS SERIES 25 POWER ROCKER SWITCH PROPORTIONAL HALL EFFECT THUMBSTICK WITH PROTECTION GUARD **KL SERIES** 14 **NV SERIES** 26 LOCKING POWER ROCKER SWITCH **NAVIGATOR SWITCH IP SERIES** 27 15 **HR SERIES** COMPACT PUSHBUTTON SWITCH PROPORTIONAL THUMBWHEEL BF / BL SERIES 28 IA, IX SERIES 16 **USED TO SWITCH GEARS** DUSTPROOF PUSHBUTTON SWITCHES **ES SERIES** 17 HEAVY DUTY METAL STOP SWITCH XA / XW SERIES **IDEC** 18 ROBUST EMERGENCY STOP **KP6 CANBUS SERIES Q SERIES** 29 PANEL MOUNT LED INDICATOR RUBBER KEYPAD **QH SERIES** 20 **CUSTOM KEYBOARD** 30 STYLISH INTUITIVE VISUAL FEEDBACK KEYPAD MADE FOR YOUR VEHICLE LED INDICATOR

PANEL SWITCHES

AV SERIES

METAL PUSHBUTTON

TOP APPLICATIONS:

BICYCLE-SHARING SYSTEMS, UTILITY VEHICLES, PEOPLE MOVERS, E-CARGOS



START AND STOP PUSHBUTTON

- Robust pushbutton
- Stainless steel actuator and bushing

- Appealing aesthetics
- Easily customizable: marking, illumination

SERIES	POLES	MAXIMUM RATINGS BUSHING DIMENSIONS		TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING	ILLUMINATION
AV	NO/NC	1A 30VDC	Ø19 mm Ø22 mm Ø30 mm	Solder lugs, quick-connect, PCB, flying load, cable	Panel	IP67	X

PBA SERIES

ROBUST PIEZO SWITCH

TOP APPLICATIONS: BICYCLE-SHARING SYSTEMS, UTILITY VEHICLES, PEOPLE MOVERS



ROBUST AND ULTRA-BRIGHT PIEZO SWITCH: IDEAL FOR OUTDOOR APPLICATIONS

- IK06
- 316L Stainless Steel, PC light diffusor

- Super bright RGB ring illumination
- 1,5M+ life cycles

SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING	ILLUMINATION
PBA	1 pole	200mA, 24V AC/DC	16mm, 19mm, 22mm, 30mm	Wire + Polex connector	Screw	IP68, up to IP69K front panel sealing	RGB super bright

FNR SERIES

FNR ROCKER SWITCH

TOP APPLICATIONS: UTILITY VEHICLES, LAST-MILE DELIVERY VANS



FOR EFFORTLESS FORWARD/REVERSE CONTROL

- 2 or 3 positions (momentary or maintained)
- Sealed up to IP69K
- 1 NO/NC in each direction
- Illumination with marking
- SIL2 / PLd capable

SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
FNR	2	1A /24V	Ø20 mm (787 in)	Flying leads, solder lugs	Panel	IP69K

FD SERIES

DOUBLE ICON ILLUMINATED PUSHBUTTON SWITCH

TOP APPLICATIONS: UTILITY VEHICLES, LAST-MILE DELIVERY VANS



DOUBLE ICON ILLUMINATED PUSHBUTTON

- 3 standard legends (0/1, START/STOP, ON/OFF)
- Sealed up to IP69K

• Threaded or snap-in versions

SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS Solder lugs	MOUNTING OPTIONS	SEALING	ILLUMINATION
FD	1,2	4A 12VDC 200mA 12VDC	Ø24 (.944) Ø26 (1,024)	x	Panel, Snap-in or threaded bushing	IP69K (threaded bushing)	×

PANEL SWITCHES

KH SERIES

POWER ROCKER SWITCH WITH PROTECTION GUARD

TOP APPLICATIONS: UTILITY VEHICLES, LAST-MILE DELIVERY VANS



PROTECT AGAINST INADVERTENT ACTIVATION, CUSTOMIZABLE

- Available on 2 or 4 sides
- Illuminated versions
- Customized laser etched legends
- Sealed up to IP68/IP69K

SERIES	POLES	MAXIMUM RATINGS	BUSHING	MOUNTING	TE	RMINAL OPTIO	NS	SEALING	ILLUMINATION
SERIES	POLES	MAXIMOM RATINGS	DIMENSIONS	OPTIONS	Solder lugs	Quick connect	Screw	SEALING	ILLOWINATION
KH	1,2	10 A 24 VDC	36.8 x 21.08 mm	Panel	X	X	Х	IP69K	X

KL SERIES

LOCKING POWER ROCKER SWITCH

TOP APPLICATIONS: UTILITY VEHICLES, LAST-MILE DELIVERY VANS



INTUITIVE UNLOCKING

• Field proven reliability

Solid construction

- Elastomer membrane option
- Intuitive ergonomics

• Easy-operation one hand activation

SERIES	POLES	MAXIMUM RATINGS	BUSHING	MOUNTING	TERMINAL OPTIONS			SEALING	ILLUMINATION	
SERIES	POLES	MAXIMUM RATINGS	DIMENSIONS	OPTIONS	Solder lugs	Quick connect	Connector	SEALING	ILLOWINATION	
KL	1,2	10A 24VDC	36.8 x 21.08 mm	Panel	X	X	X	IP69K	X	

IP SERIES

COMPACT PUSHBUTTON SWITCH

TOP APPLICATIONS: E-BIKES, E-SCOOTERS, UTILITY VEHICLES, ELECTRIC BUSES



PUSHBUTTON SWITCH FOR HARSH AND OUTDOOR ENVIRONMENTS

- High performance pushbuttons
- Largest selection of color, shapes, terminals, markings, backlighting
- simplified purchasing

SERIES		MAXIMUM	BUSHING			TERM	IINAL OP	TIONS			MOLINITING		ILLUMINATION
	POLES	RATINGS	DIMENSIONS	Solder lugs	Quick connect	Screw	PCB	Flying leads	Wire Wrap	Cable	MOUNTING OPTIONS		
IP	1	5A 28VDC 4A 17VDC	Ø12 (.472)	×	X		x	х			Panel	IP67	X

IA / IX SERIES

DUSTPROOF PUSHBUTTON SWITCHES

TOP APPLICATIONS:

E-BIKES, E-SCOOTERS, UTILITY VEHICLES, ELECTRIC BUSES



IA: EXCELLENT TACTILE FEEDBACK IX: COMPACT PUSHBUTTON WITH BACKLIGHTED LOGOS

IΑ

- Dustproof: Membrane on top with no gap and panel
- Frost, sand and hydrocarbon resistant
- Flush on panel
- Sealed up to IP67
- SIL2/Pld capable

ΙX

- Dustproof: Membrane on top with no gap between actuator and panel
- Available with backlit marking
- Frost, sand and hydrocarbon resistant
- Flush on panel
- Sealed up to IP67/IP69K
- SIL2/Pld capable

SERIES	MECHANICAL CYCLES	APPROVALS	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING	ILLUMINATION
IA	1M cycles	N/A	NC/NO	2A 24VDC	Ø16 mm (.629)	Flying leads	Panel	IP65, IP67	No
IX	1M cycles	N/A	NO+NC	2A 28VDC	Ø12 mm (.472)	Solder lugs, wires	Panel	IP67; IP69K	Yes

ES SERIES

HEAVY DUTY METAL STOP SWITCH

TOP APPLICATIONS: AUTONOMOUS SHUTTLES, UTILITY VEHICLES, E-CARGOS



METAL SAFETY SWITCH

• Sealed up to IP65, IP67 & IP69K • Compact body, Complies with EN609447-5-1 • Impact resistant to IK10 MECHANICAL CYCLES BUSHING DIMENSIONS MOUNTING OPTIONS SERIES POLES TERMINAL OPTIONS MAXIMUM RATINGS SEALING Ø22 mm, Ø28 mm (.877 in) Solder lugs, straight PC, wire ES 100 000 cycles 2, 3 1A 24VDC IP65/IP67/IP69K Panel



ROBUST EMERGENCY STOP

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES, ELECTRIC BIKES, UTILITY VEHICLES, E-CARGOS, PEOPLE MOVERS



«SAFE BREAK ACTION» TECHNOLOGY

- Exclusive safety technology ensuring that the machinery is stopped if actuator is broken
- Sealed up to IP67

- Compact behind panel
- Available with illumination
- Twist or pull to release

SERIES	SAFE BREAK TECHNOLOGY	PANEL CUT OUT	OPERATOR SIZES	NUMBER OF CONCTACTS	TERMINAL CONNECTION	OPERATION	ILLUMINATION
XA	×	16 mm	Ø29 mm (1.141 in), Ø40 mm (1.574 in)	Up to 4 NC: 1,2,3,4 / NO: 0,1	Solder, PCB	Push to lock, pull or turn to reset	Option
xw	Х	22 mm	Ø 38 mm (1.496 in) Ø 40 mm (1.574 in) Ø 60 mm (2.362 in)	Up to 4 NC: 1,2,3,4 / NO: 0,1	Screw, solder, PCB	Push to lock, pull or turn to reset	Option

Q SERIES

PANEL MOUNT LED INDICATOR

TOP APPLICATIONS:

E-BIKES, CARTS, SCOOTERS, DISBALED ACESSABILITY - CHAIRS, TRANSPORT, TRAMS BUS & TRAIN, CLEANING - PUBLIC CLEANING EQUIPMENT



LARGE VARIETY OF SIZES AND COLORS

SERIES	PANEL	MAXIMUM	BEZEL STYLES	BEZEL	TEF	RMINAL OPTIC	NS	TYPE	LED COLORS
	CUT-OUT	RATINGS	BEZEL STILES	FINISHES	Fastons	Pins	Wire	OF ILLUMINATION	LED COLORS
Q	Ø6, 8, 10, 12, 14, 16, 19, 22, 25, 30	2VDC -220VAC	Prominent, recessed & flushed	Bright, satin & black	×	x	Х	Fixed light, bi-color, RGB	Suitable for in cab use and outside use which are daylight viewable

QH SERIES

STYLISH INTUITIVE VISUAL FEEDBACK LED INDICATOR

TOP APPLICATIONS: ELECTRIC BIKES, AUTONOMOUS SHUTTLES, CHARGING STATIONS



PERFECT FOR BATTERY INDICATOR STATUS

OI LII	rengeries otop owneries and he	by components			
SERIES	PANEL MAXIMUM RATINGS CUT-OUT		LED OPTIONS	MECHANICAL LIFE	
QH	16mm 22mm 30mm	12-24VDC	Red, Green, Yellow, Blue, White, RGB, RG, RY, BW	50,000 hours	

JOYSTICKS

XP SERIES

MID-SIZE PALM JOYSTICK

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES (FOR MAINTENANCE OPERATIONS)



INNOVATIVE & ERGONOMIC MID-SIZE PALM JOYSTICK: PERFECT FOR MANUAL CONTROL OF AUTONOMOUS VEHICLES

• Flexible handle configuration • Choice of four handle types • Compact behind panel depth • Sealed electronics SERIES MECHANICAL CYCLES OUTPUT OPTION HANDLES OPTIONS AXIS SEALING 2 ΧP 10M cycles Analog and CAN bus UR and MF IP66

XD SERIES + RT HANDLE

HALL EFFECT ROBUST JOYSTICK

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES (FOR MAINTENANCE OPERATIONS), PEOPLE MOVERS, UTILITY VEHICLES



HALL EFFECT ROBUST JOYSTICK

• Joystick designed for heavy • Highly configurable backplate and faceplate (compatible with most of APEM component) duty application • Withstand 400lbs of axial load OUTPUT OPTION MECHANICAL CYCLES HANDLES OPTIONS SERIES AXIS SEALING Ambidextrous 2 CAN bus IP67 XD 10M cycles & ergonomically angled

3000 SERIES

PREMIUM HALL EFFECT JOYSTICK

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES, PEOPLE MOVERS, UTILITY VEHICLES



COMPACT HALL-EFFECT JOYSTICK

• All m	etal mechanism		• IP66 sealing		Rated for 10 million cycles TECHNOLOGY OUTPUT OPTION MOUNTING OPTIONS SEALING OPTIONS SEALING					
SERIES	MECHANICAL CYLES	ERGONOMICS	AXIS	TECHNOLOGY	OUTPUT OPTION	MOUNTING OPTIONS	SEALING			
3000	10M cycles	Spring to center	1, 2, 3	Hall effect	Single, Dual, Analog, PWM, CAN bus	Drop-in or rear mounting	Up to IP66			

CW SERIES

PROPORTIONAL THUMBWHEEL

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES (MAINTENANCE PANEL), UTILITY VEHICLES, E-BIKES



ERGONOMIC CONTROLLER

• Snap-in mounting • Spring to center MECHANICAL CYCLES OUTPUT OPTIONS MOUNTING OPTIONS SERIES ERGONOMICS TECHNOLOGY AXIS SEALING Single, Dual, CW 3M cycles Spring to centre Hall effect Sealed electronics Single Snap-in Analogue, PWM

TS SERIES

PROPORTIONAL HALL EFFECT THUMBSTICK

TOP APPLICATIONS: JOYSTICK USED IN VEHICLES



PRECISION FINGERTIP CONTROL

- Ergonomically designed for repetitive
- Highly reliable: up to IP67 and IP69K sealing
- Easy integration with rear or drop-in mounting & compact size

SERIES	MECHANICAL CYCLES	ERGONOMICS	AXIS	TECHNOLOGY	OUTPUT OPTIONS	MOUNTING OPTIONS	SEALING
TS	1M cycles	-	1, 2	Hall effect	Single, Dual, Analog, usb	Drop-in or Rear mounting	IP67

NV SERIES

NAVIGATOR SWITCH

TOP APPLICATIONS: JOYSTICK USED IN VEHICLES



IDEAL AS DISPLAY CONTROLLER

- Ideal for navigation in display menu

- Easy integration in joystick handle
- Sealed up to IP69K

SERIES	MECHANICAL CYCLES	AXIS	BUSHING DIMENSIONS	TECHNOLOGY	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
NV	1M cycles	1, 2	Ø16 mm (.629 in)	Switching	Wire leads or connector	Panel	IP69K

HR SERIES

PROPORTIONAL THUMBWHEEL

TOP APPLICATIONS: LAST-MILE DELIVERY VANS, UTILITY VEHICLES



ROBUST AND ERGONOMIC THUMBWHEEL

- Electronics sealed up to IP68
- Available with detent, friction, latching and 360° infinite wheel

- SIL2 / Pld capable

SERIES	MECHANICAL CYCLES	AXIS	TECHNOLOGY		OUTPUT OPTIONS		MOUNTING OPTIONS	SEALING
SERIES				Single	Dual	Analog		
HR	5M cycles	1	Hall effect	x	×	×	Rear mounting	IP68

BF / BL SERIES

USED TO SWITCH GEARS

TOP APPLICATIONS: LAST-MILE DELIVERY VANS, BUSES



STYLISH AND ROBUST PADDLE FOR VEHICLE DASHBOARD

- Precision hall effect sensing
- Coloured inserts / trim
- Single axis with dual output
- Zero behind panel depth

SERIES	MECHANICAL	AXIS	TECHNOLOGY	OUTPUT OPTIONS					MOUNTING OPTIONS	SEALING	
SERIES	CYCLES	ANIS		Single	Dual	Analog	PWM	USB	CAN bus	MOUNTING OPTIONS	SEALING
BHN, BH, BF, BD & BL	5M cycles	1	Hall effect	X	X	x				Rear mounting	IP68

KP6 CANBUS SERIES

RUBBER KEYPAD

TOP APPLICATIONS:

AUTONOMOUS SHUTTLES, ELECTRIC BUSES, UTILITY VEHICLES (DASHBOARD)



STANDARD SOLUTION FOR MULTIPLE BUTTON APPLICATIONS

- CAN bus or direct wiring output options
- CAN solution e-marking qualified (EMI, EMC)

- Bargraph & indicators available
- Blind usage and glove usage compatible

SERIES OPERATING VOLTAGE		COMMUNICATION PROTOCOL	MOUNTING	EXTRA FEATURES	
KP6 CAN BUS KEYBOARD	12 to 24 VDC	Can J1939 or discrete	Snap-in front mounting	Special illumination/phantom marking/ special key colours	





70 years of trust built on quality



1,400 EMPLOYEES WORLDWIDE



■ 50,000 + PART NUMBERS

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