







APEM offers high-reliability Human Machine Interface (HMI) products for special vehicles.

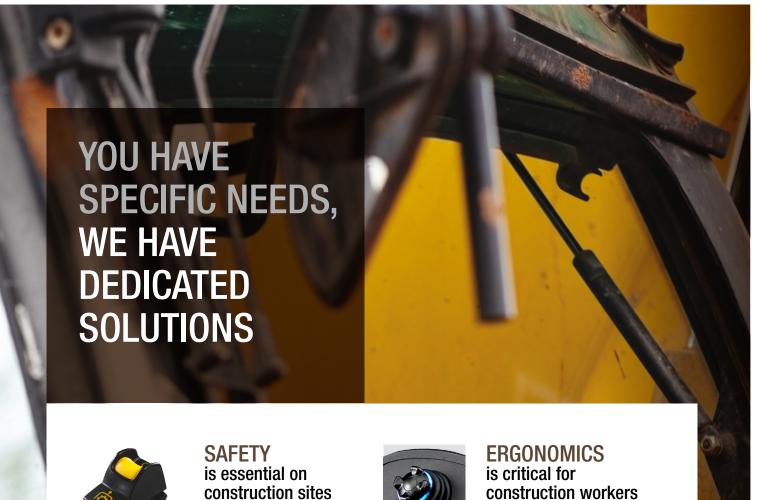
With vertically integrated manufacturing, APEM guarantees an

APEM uncompromised reliability through its custom product development, manufacturing excellence and outstanding service. APEM offers a very broad range of HMI components designed for off-highway vehicles, including joysticks, switches and keypads.

INCONSTRUCTION

MACHINERY







#### KL SERIES

The KL rocker is the perfect solution for construction vehicles thanks to its reliable interlocking mechanism preventing accidents due to unintended operation.



#### TS SERIES

The TS thumbstick is a proportional two axis joystick similar in size and operation to "gamepad" controls, but in a rugged industrial package.



### **PRODUCTIVITY**

is key for construction companies

#### XD RT HANDLE

Build the optimal joystick ergonomics for the operator by using our large range of HMI components.



### **EFFICIENCY** driven by innovation

### **NV SERIES**

Instead of an expensive display controller, use our intuitive NV to navigate the touch panel while keeping your hand on the joystick.



# INTEGRATE OUR HMI COMPONENTS IN YOUR DESIGN OR SELECT OUR CUSTOM JOYSTICK & HANDLE SOLUTIONS



IA SERIES
Field proven reliability



HR SERIES
Versatile range



CW SERIES
Compact thumbwheel



IX SERIES
Compact
and illuminated



TS SERIES

Miniature hall
effect joysticks



**NV SERIES** "push to validate" switch based joystick



IM SERIES Exceptional tactile feedback



FNR SERIES
Robust and reliable



Shallow mounting depth < 60 mm Extremely robust, resists high axial load (1780 N - 400 lbf)

# WE CUSTOMIZE OUR FIELD-PROVEN QUALIFIED **COMPONENTS TO BUILD** YOUR UNIQUE HMI









#### FNR SERIES & CUSTOM ACTUATORS

A rugged rocker available with custom actuator options designed to fit all hand sizes, reduce index fatigue and avoid inadvertent actuation



#### **HR SERIES**

Best-in-class thumbwheel



#### ROCKERMEC

The PCB-mounted compact solution



#### TOGGLE\*

Compact toggle ideal as a joystick-mounted FNR

\*see our toggle range on apem.com



#### MT SERIES

Highly sealed rocker switch

#### **CUSTOM START / STOP SOLUTIONS**



#### AV30 SERIES

Large illuminated metal switch



#### FD24 SERIES

Double legend depending on the red/ green illumination



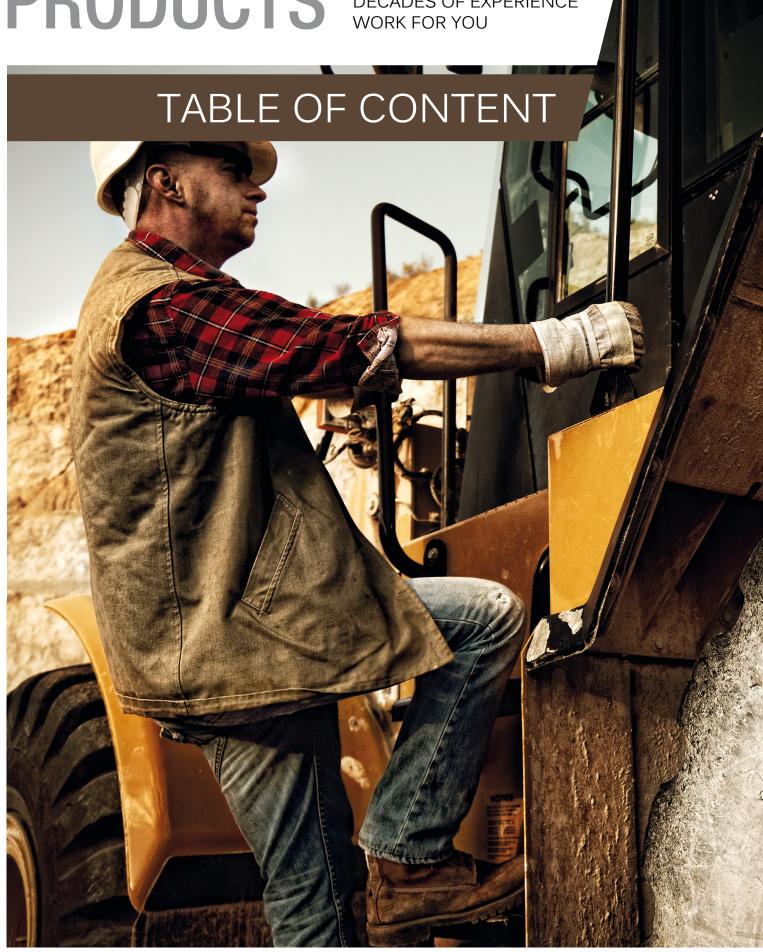
#### MULTIMEC™ 5G

Illuminated PCB switch sealed up to IP67

CONTACT US TO BUILD YOUR UNIQUE HMI

# OUR PRODUCTS

WHETHER IT'S A STANDARD PRODUCT OFFERING OR A CUSTOMIZED SOLUTION, LET APEM'S DECADES OF EXPERIENCE WORK FOR YOU



#### JOYSTICKS **AV SERIES** 23 RUGGED START/STOP METALIC PUSHBUTTON KR / KH / KL SERIES 24 **XD SERIES** 8 **DESIGNED FOR CONSTRUCTION** SEALED, CUSTOMIZABLE ROCKER **HJ SERIES** 9 MT SERIES 25 HEAVY DUTY AND FIELD PROVEN SELECTOR SWITCH FOR ERGONOMIC INTERFACE CW SERIES IDEC XF SERIES 26 10 **NEW INDUSTRIAL STYLE** AVAILABLE WITH CAN BUS MW SERIES IDEC 3000 SERIES 11 27 **DUSTPROOF** COMPACT, PRECISION HALL EFFECT JOYSTICK HR SERIES **ES SERIES** 12 28 **ROLLER AVAILABLE WITH MANY OPTIONS** METAL SAFETY SWITCH XA / XW SERIES IDEC **CW SERIES** 13 29 MINIATURE THUMBWHEEL "SAFE BREAK ACTION" TECHNOLOGY TS SERIES 14 3500 / CT SERIES 30 PRECISION FINGERTIP CONTROL MARKET LEADER **NV SERIES** 15 **IDEAL AS DISPLAY CONTROLLER** PCB SWITCHES BHN / BL SERIES 16 STYLISH AND ROBUST **MULTIMEC 5 SERIES** 31 LARGE SELECTION OF STANDARD ACCESSORIES PANEL SWITCHES **FNR SERIES** 17 FOR EFFORTLESS FORWARD/REVERSE CONTROL **Q SERIES** 32 LARGE VARIETY OF SIZES AND COLORS IA SERIES 18 THE REFERENCE IN THE CONSTRUCTION INDUSTRY IX SERIES 19 PANEL SOLUTIONS THE NEXT STANDARD IM / IP / IS SERIES **KP6 CAN BUS KEYBOARD** 33 20 EXTENSIVE COMPACT RANGE STANDARD SOLUTION IHS / IHL SERIES 21 REMOTE CONTROL 34 HALL EFFECT TECHNOLOGY PANEL SOLUTIONS FD SERIES 22 COMPLETE DASHBOARD 35 DOUBLE ICON ILLUMINATED PUSHBUTTON PANEL SOLUTIONS

ANEL SWITCHES PCB SWITCHES LED INDICATORS

JOYSTICKS

PANEL SOLUTIONS

# **XD SERIES**

#### HALL EFFECT ROBUST JOYSTICK

# **TOP APPLICATIONS:**LOADER, EXCAVATOR, TELEHANDLER, MINING



### **DESIGNED FOR CONSTRUCTION**

- 10 million lifecycles
- Extreme robustness
- Available with CAN bus J1939-71
- Shallow mounting depth
- IP67 above panel sealing
- Up to 1780 N 400 lbf horizontal load (depending on handle)
- SIL2 / Pld capable

SERIES	MECHANICAL LIFECYCLES	AXIS	TECHNOLOGY			OUTPUT	OPTIONS			MOUNTING	ABOVE PANEL SEALING
SERIES		ANIS	TECHNOLOGY	Single	Dual	Analog	PWM	USB	CAN bus	OPTIONS	ADOVE PAINEL SEALING
XD	10 million	1 to 2 axis	Hall effect	x	x				x	Drop-in	IP67

# **HJ SERIES**

### HALL EFFECT ROBUST JOYSTICK

# **TOP APPLICATIONS:** LOADER, DUMP TRUCK





### HEAVY DUTY AND FIELD PROVEN

- 5M cycles
- Standard or custom handle
- CAN options available

- Up to IP69K
- Up to 180 Nm horizontal load (depending on handle)
- SIL2 / Pld capable

SERIES	MECHANICAL	AXIS	TECHNOLOGY			OUTPUT	OPTIONS			MOUNTING	ABOVE PANEL SEALING
SERIES	LIFECYCLES	ANIS	TECHNOLOGY	Single	Dual	Analog	PWM	USB	CAN bus	OPTIONS	
HJ	5 million	1, 2, 3	Hall effect	X	X	X		Х	X	Drop-in or rear mounting	IP69K

**JOYSTICKS** 

# XF SERIES

### SMALL HALL EFFECT JOYSTICK

### **TOP APPLICATIONS:** COMPACT VEHICLES, ROAD CONSTRUCTION, MINING



### **AVAILABLE WITH CAN BUS**

- Many outputs available, including CAN bus J1939

- SIL2 / Pld capable
- Up to IP67 above panel sealing

SERIES	MECHANICAL LIFECYCLES AXIS	AVIC	TECHNOLOGY			OUTPUT	OPTIONS			MOUNTING	ABOVE PANEL
SERIES		AAIS	TECHNOLOGI	Single	Dual	Analog	PWM	USB	CAN bus	OPTIONS	SEALING
XF	5 million	1, 2, 3	Hall effect	X	Х	X		X	X	Drop-in or rear mounting	IP67

# 3000 SERIES

#### PREMIUM HALL EFFECT JOYSTICK

# **TOP APPLICATIONS**: LOADER, ROAD CONSTRUCTION



### COMPACT, PRECISION HALL EFFECT JOYSTICK

• Compact for low profile applications technology **OUTPUT OPTIONS** MECHANICAL MOUNTING SERIES AXIS TECHNOLOGY SEALING LIFECYCLES OPTIONS Analog CAN bus Single Dual PWM 3000 10 million 1, 2, 3 Hall effect Drop-in or rear mounting IP67 Х Х Χ Х

**JOYSTICKS** 

# HR SERIES

### PROPORTIONAL THUMBWHEEL

#### **TOP APPLICATIONS:** EXCAVATOR, TELEHANDLER, SKID STEER



### **ROLLER AVAILABLE WITH MANY OPTIONS**

- Electronics sealed up to IP68
- Available with detents, friction, latching and 360° infinite wheel
- 7 colors and 4 shapes in standard
- SIL2 / Pld capable

SERIES	MECHANICAL	AXIS	TECHNOLOGY		OUTPUT	OPTIONS		MOUNTING OPTIONS	SEALING	
SERIES	LIFECYCLES	ANIS	TECHNOLOGY	Single	Dual	Analog	PWM	MOONTING OPTIONS	SEALING	
HR	5 million	1	Hall effect	X	X	X		Rear mounting	IP68	

# **CW SERIES**

### MINIATURE PROPORTIONAL THUMBWHEEL

# **TOP APPLICATIONS:** EXCAVATOR, TELEHANDLER, LOADER



### MINIATURE THUMBWHEEL

- Up to 3M cycles
- Snap-in mounting

- Custom actuator on request
- Spring to center

SERIES	MECHANICAL	AXIS	TECHNOLOGY	OUTPUT OPTIONS				MOUNTING OPTIONS	SEALING	
SERIES	LIFECYCLES	AAIS		Single	Dual	Analog	PWM	MOUNTING OFFICINS	SEALING	
CW	3 million	Single	Hall effect	X	X	X	X	Snap-in	-	

# TS SERIES

### PROPORTIONAL HALL EFFECT THUMBSTICK

#### **TOP APPLICATIONS:** TELEHANDLER, EXCAVATOR, LOADER



### PRECISION FINGERTIP CONTROL

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

SERIES	MECHANICAL A	AXIS	TECHNOLOGY			OUTPUT	OPTIONS			MOUNTING	PANEL SEALING	
SERIES	LIFECYCLES	AXIS		Single	Dual	Analog	PWM	USB	CAN bus	OPTIONS		
TS	1 million	1, 2	Hall effect	X	Х	X		х		Drop-in or rear mounting	IP67, IP69K	

# **NV SERIES**

### **NAVIGATOR SWITCH**

# **TOP APPLICATIONS:**ROAD CONSTRUCTION, TELEHANDLER





### IDEAL AS DISPLAY CONTROLLER

- Compact momentary micro switching thumbstick
- Available with "push to validate" option, ideal for navigation in display menu
- Enhanced tactile feedback
- Easy integration in joystick handle
- Sealed up to IP69k

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

**JOYSTICKS** 

# **BHN/BL SERIES**

#### PROPORTIONAL PADDLE

#### **TOP APPLICATIONS:** DUMP TRUCK, ROAD CONSTRUCTION



### STYLISH AND ROBUST

• Available in 2 heights • 5 color options • Soft touch sculpted grip • Sealed up to IP67 • SIL2 / PLd capable **OUTPUT OPTIONS** MECHANICAL LIFECYCLES AXIS MOUNTING OPTIONS SEALING SERIES TECHNOLOGY Single IP67 BHN/BL 10 million Single Hall effect Χ Drop-in

# **FNR SERIES**

#### **FNR ROCKER SWITCH**

# **TOP APPLICATIONS**: EXCAVATOR, LOADER, TELEHANDLER



### FOR EFFORTLESS FORWARD/REVERSE CONTROL

• 2 or 3 position: or maintained		• Sealed u • 1 NO/NC	p to IP67 in each direction	• Illun • SIL2	ing	
SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
FNR	2 NO+NC	1A /24V	Ø20 mm (787 in)	Flying leads, solder lugs	Panel	IP69K & IP67

# IA SERIES

#### **DUSTPROOF PUSHBUTTON SWITCH**

#### **TOP APPLICATIONS:** EXCAVATOR, LOADER, TELEHANDLER



### THE REFERENCE IN THE CONSTRUCTION INDUSTRY

- Dustproof: Membrane on top with no gap between actuator and panel
- Frost, sand and hydrocarbon resistant
- Sealed up to IP67

• Flush on panel

• SIL2/Pld capable

SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
IA	1 NO+NC	2A 24VDC	Ø16 mm (.629 in)	Flying leads	Panel	IP65 IP67

# IX SERIES

#### **COMPACT PUSHBUTTON SWITCH**

# **TOP APPLICATIONS**: EXCAVATOR, LOADER, TELEHANDLER





### THE NEXT STANDARD

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

SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
IX	1 NO/NC	2A 28VDC	Ø12 mm (.472 in)	Solder lugs / Wire leads	Panel	IP67 IP69K

# IM / IP / IS SERIES

#### COMPREHENSIVE PUSHBUTTON RANGE

#### **TOP APPLICATIONS:** SKID STEER LOADER, GRADER, TELEHANDLER



### **EXTENSIVE COMPACT RANGE**

- Compact
- Available with illumination
- Available with snap action and audible tactile feedback (IM)
- Marking in option

- Sealed up to IP67
- Momentary or latching
- Up to SIL2/Pld capable

		MAXIMUM		BUSHING	MOUNTING		TERMINAL	OPTIONS		
SERIES	POLES	RATINGS	ILLUMINATED	DIMENSIONS	OPTIONS	PCB	Solder lugs	Quick-connect	Flying leads	SEALING
IM	1 NO/NC	(1A 250VAC)* 3A •28VDC		Ø 12 mm (.472 in)	Panel	x		x		IP67
IP momentary	1	(2A 250VAC)* 5A 28VDC	×	Ø 12 mm (.472 in)	Panel	x	x	x	x	IP67
IP latching	1	(2A 250VAC)* 4A 12VDC	×	Ø 12 mm (.472 in)	Panel	x	x	x	x	IP67
IS	1	(2A 250VAC)* 100mA 48VDC		Ø 12 mm (.472 in)	Panel	x	×	x		IP67

# IHS / IHL SERIES

#### HALL EFFECT PUSHBUTTON RANGE

# **TOP APPLICATIONS:**BACKHOE LOADER, EXCAVATOR



### HALL EFFECT TECHNOLOGY

- Long life: 5M cycles
- Hall effect technology

- Momentary (IHS) or proportional (IHL)
- Sealed up to IP67

SERIES	MAXIMUM RATINGS	BUSHING DIMENSIONS	MOUNTING OPTIONS	TERMINAL OPTIONS	SEALING
IHS	5mA 24VDC	Ø 12 mm (.472 in)	Panel	Flying leads	IP67
IHL	1,25mA 4,5VDC	Ø 12 mm (.472 in)	Panel	Flying leads	IP67

# FD SERIES

#### DOUBLE ICON ILLUMINATED PUSHBUTTON SWITCH

### **TOP APPLICATIONS:** CONSTRUCTION MACHINERY DASHBOARD (ENGINE START)



### DOUBLE ICON ILLUMINATED PUSHBUTTON

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

• Threaded or snap-in versions

	DOLES	MAXIMUM	BUSHING	TERMINAL OPTIONS					MOUNTING		
SERIES	POLES	RATINGS	DIMENSIONS	Solder lugs	Quick connect	PCB	Flying leads	Cable	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)	x

# **AV30 START STOP**

### METAL PUSHBUTTON

# TOP APPLICATIONS: CONSTRUCTION MACHINERY DASHBOARD (ENGINE START)



### RUGGED METALLIC PUSHBUTTON

- Robust pushbutton
- Stainless steel actuator and bushing

- Appealing aesthetics
- Easily customizable: marking, illumination

050150		MAXIMUM	BUSHING	TERMINAL OPTIONS					MOUNTING		
SERIES	POLES	RATINGS	DIMENSIONS	Solder lugs	Quick connect	PCB	Flying leads	Cable	OPTIONS	SEALING	ILLUMINATION
AV	NO/NC	1 A 30 VDC	Ø30 (1.18)	X	x	X	x	x	Panel	IP67	Х

# KR / KH / KL SERIES

#### **ROCKER SWITCH**

#### **TOP APPLICATIONS:** DUMP TRUCK, LOADER



## SEALED, CUSTOMIZABLE ROCKER

- Protected against accidental actuation (KH)
- Customized laser etched legends
- Up to IP68/IP69K

- Patented locking system for safety application (KL)
- Illuminated versions

SERIES	POLES	MAXIMUM RATINGS	BUSHING	MOUNTING	TEI	RMINAL OPTIOI	NS	SEALING	ILLUMINIATION	
SERIES	POLES	MAXIMUM RATINGS	DIMENSIONS	OPTIONS	Solder lugs	Quick-connect	Screw	SEALING	ILLUMINATION	
KR	1, 2	20 A 12 VDC	36.8 x 21.08 mm	Panel	Х	Х	Х	IP68 or IP69K	х	
KH	1, 2	10 A 24 VDC	36.8 x 21.08 mm	Panel	X	X	Х	IP69K	Х	
KL	1, 2	10 A 24 VDC	36.8 x 21.08 mm	Panel	Х	Х	X	IP68 or IP69K	Х	

# **MT SERIES**

#### **SEALED ROCKER SWITCH**

# **TOP APPLICATIONS:** CONCRETE CUTTER



### SELECTOR SWITCH FOR ERGONOMIC INTERFACE

• Environmental	lly sealed (IP68)	• Multiple funct	ions available	Various contact materials that allow usage from dry circuit applications up to 4 A			
SERIES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL Solder lugs	PCB	MOUNTING OPTIONS	SEALING	
МТ	4 A 30 VDC	Ø17,46	X	X	Panel, Vertical-Though hole	IP68	



### MODULAR AND STYLISH PUSHBUTTON

#### **TOP APPLICATIONS:** ROLLER, GRADER, PAVER



### **NEW INDUSTRIAL STYLE**

Stylish desig     Sealed up to	n IP67 with rubber	r boot option		Illumination in     Selector switch			
SERIES	APPROVALS	POLES	SEALING	PANEL CUT OUT	TERMINAL	CONTACT TYPE	RATINGS
cw	UL, CE, CCC	Up to 6	IP65, up to IP67	Ø 22 mm (.866 in)	Screw	IP67	Heavy duty (up to 10 Amps)



### FOR DEMANDING ENVIRONMENTS

# **TOP APPLICATIONS:** ROLLER, GRADER, PAVER



### **DUSTPROOF**

<ul><li>Dustproof: n</li><li>Sealed up to</li></ul>	o gap between o IP66	actuator and pa	nel	Selector switch available					
SERIES	APPROVALS	POLES	SEALING	PANEL CUT OUT	TERMINAL	CONTACT TYPE	RATINGS		
MW	CE, CCC	Up to 2	IP65 IP66	Ø 22 mm (.866 in)	Solder/tab or screw	Monobloc	Heavy duty (up to 10 Amps)		

# **ES SERIES**

### **HEAVY DUTY METAL SAFETY SWITCH**

#### **TOP APPLICATIONS: ROAD CONSTRUCTION**





### METAL SAFETY SWITCH

- Sealed up to IP65, IP67 & IP69K
- Compact body

- Complies with EN60947-5-1
- Impact resistant to IK10

CEDIE	_	DOLES.	MAXIMUM	BUSHING	TERMINAL OPTIONS		MOUNTING OPTIONS	SEALING	
SERIES	SERIES POLES		RATINGS	DIMENSIONS	Solder lugs	PCB	MOUNTING OPTIONS		
ES		2,3	1A 24VDC	Ø22.28 mm (.877 in)	X	X	Panel	IP65 IP67 IP69K	



#### **ROBUST EMERGENCY STOP**

## **TOP APPLICATIONS:**ROAD CONSTRUCTION



### "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	ERIES SAFE BREAK TECHNOLOGY PANEL CUT OUT		OPERATOR SIZES	NUMBER OF CONCTACTS	TERMINAL CONNECTION	OPERATION	ILLUMINATION
XA	X	16 mm	Ø 29 mm (1.141 in) Ø 40 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

# 3500 / CT SERIES

#### HIGH PERFORMANCE TOGGLE SWITCH

#### **TOP APPLICATIONS:** PAVER, LOADER, MINING



### MARKET LEADER

- High current rating
- Very broad range: 5 finishes, 6 levers styles, 3 types of locking, 3 types of terminals...
- Sealed up to IP67/IP69K
- Available accessories: guard and boot

, , ,		- 1								
			MAXIMUM	BUSHING	BUSHING MOUNTING		TERMINAL			
SERIES	APPROVALS	POLES	RATINGS	DIMENSIONS	OPTIONS	Solder lugs	Quick-connect	Screw	Connector	SEALING
3500	CECC	1,2	15A 28VDC	Ø12.2 mm (.49 in)	Panel	X	X	Х		IP67 IP69K
СТ	UL	1,2	10A 125/250 VAC	Ø12.2 mm (.48 in)	Panel	X	Х	Х	Х	IP67

# **MULTIMEC 5 SERIES**

#### **TACTILE PCB SWITCH**

**TOP APPLICATIONS**: LOADER, TELEHANDLER



### LARGE SELECTION OF STANDARD ACCESSORIES

• 10 million activations • Different haptic options • Front panel sealing to IP67 depending on cap solutions • Wide range of cap options POLES MAXIMUM RATING MOUNTING OPTIONS SEALING SERIES MECHANICAL LIFE Multimec 5 series -Trough hole or SMT 10,000,000 50mA - 24VDC IP67 Single pole / momentary 5E & 5G mounting operations

# **Q SERIES**

### **LED INDICATOR**

#### **TOP APPLICATIONS:** ROAD CONSTRUCTION, LOADER



### LARGE VARIETY OF SIZES AND COLORS

	PANEL	MAXIMUM	BEZEL STYLES	BEZEL	TE	RMINAL OPTIO	NS	TYPE	
SERIES	CUT-OUT RATINGS		BEZEL STYLES	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	×	×	×	Fixed light, bi-color, RGB, night vision	Suitable for in cab use and outside use which are daylight viewable

## **KP6 CAN BUS KEYBOARD**

#### **RUBBER KEYPADS**

#### **TOP APPLICATIONS:** LOADER, GRADER, EXCAVATOR



### STANDARD SOLUTION FOR MULTIPLE BUTTON APPLICATIONS

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

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

SERIES	SEALING	OPERATING VOLTAGE	COMMUNICATION PROTOCOL	MOUNTING	EXTRA FEATURES
KP6	up to IP67	12 to 24 VDC	Can J1939 or discrete	Snap-in front mounting	Special illumination / phantom marking / special key colors

# REMOTE CONTROL

#### PANEL SOLUTIONS

### **TOP APPLICATIONS:** ALL CONSTRUCTION EQUIPMENTS AND VEHICLES



- Backlighting

- IP67/IP69K sealing
- Up to SIL2/Pld capable

#### **CUSTOMIZATION OPTIONS**

Based on 9 mastered technologies (membrane, elastomeric...) and high performance APEM components

Design for outdoor and dusty environment

APEM Available Communication Protocols as a standard : CAN bus, RS485/422, USB

Consideration of ergonomic constraints in the design for user-friendly operation

Developed to withstand falls

# **COMPLETE DASHBOARD**

#### PANEL SOLUTIONS

# **TOP APPLICATIONS**: ALL CONSTRUCTION EQUIPMENTS AND VEHICLES



- Rear or front panel mounting
- Backlighting

- IP67/IP69K sealing
- Up to SIL2/Pld capable

#### CUSTOMIZATION OPTIONS

Based on 9 mastered technologies (membrane, elastomeric...) and high performance APEM components

Design for outdoor and dusty environment

APEM Available Communication Protocols as a standard : CAN bus, RS485/422, USB

UV, shock & vibration resistance

70 years of trust built on quality



#### **WORLDWIDE SALES & CUSTOMER SUPPORT**

70

970 Park Center Drive VISTA, CA 92081 Tel: (+1) 760 598 2518 info@apem.com

10 New England Business Center Drive, Ste 203 Andover, MA 01810 Tel: (+1) 978 372 1602 info@apem.com

CHINA
IDEC Shanghai
8th Floor, Tower 2,
Enterprise Centre,
No.209 Gong He Road,
Shanghai, 200040, P.R.C
Tel: +86 21 6076 1355

JAPAN
IDEC Corporation
2-6-64 Nishimiyahara,
Yodogawa-ku, Osaka,
Japan 532-0004
apem-sales@jp.idec.com

SINGAPORE IDEC Izumi Pte Ltd 08 Kallang Avenue, Tower 1, Unit #13-09, Singapore 339509 Tel: +65 6746 1155 apem.apec@idec.com

BENELUX
Belgicastraat 7/1
1930 ZAVENTEM
Belgium
Tel B: (+32) 27 25 05 00
Tel NL: (+31) (70) 799 91 51
be.sales@apem.com

55, avenue Edouard Herriot BP1 82303 CAUSSADE Cedex Tel: (+33) 5 63 93 14 98 fr.commercial@apem.com

GERMANY
Gewerbehof Giesing
Paulsdorfferstr. 34, 2, OG
D-81549 MUNICH
Tel: (+49) 89 45 99 11 0
de.info@apem.com

Via Savigliano 6/B 12062 CHERASCO (Fraz. Roreto di Cherasco) Tel: (+39) 0172 74 31 70 apem.italia@apem.com

Torshamnsgatan 39 S-16440 KISTA Tel: (+46) 8 626 38 00

#### UNITED KINGDOM

Drakes Drive LONG CRENDON, Bucks HP18 9BA England Tel: (+44) 1 844 202400 uk.sales@apem.com

#### MORE THAN 130 DISTRIBUTORS WORLDWIDE

in Follow us on Linkedin Follow us on Youtube



apem.com

