

Creating global HMI solutions

CONSTRUCTION MACHINERY



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

With vertically integrated manufacturing, APEM guarantees an 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.

APEM IN CONSTRUCTION MACHINERY

FIELD PROVEN RELIABILITY UNPARALLELED RANGE

YOU HAVE SPECIFIC NEEDS, WE HAVE DEDICATED SOLUTIONS



SAFETY is essential on construction sites

KL SERIES

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



XD RT HANDLE

is key for

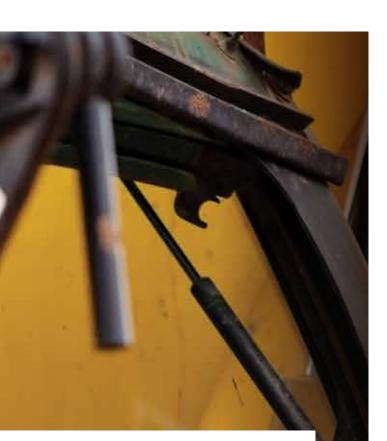
construction

companies

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









ERGONOMICS is critical for construction workers

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.



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.



THE WIDEST RANGE OF HMI **COMPONENTS FOR JOYSTICKS**

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



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

TAILOR-MADE FNR CONTROL



FNR SERIES & CUSTOM ACTUATORS



HR SERIES

Best-in-class thumbwheel



TOGGLE*

Compact toggle ideal as a joystick-mounted FNR *see our toggle range on apem.com

CUSTOM START / STOP SOLUTIONS



AV30 SERIES

Large illuminated metal switch







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



ROCKERMEC

The PCB-mounted compact solution



MT SERIES

Highly sealed rocker switch





Double legend depending on the red/ green illumination

MULTIMEC[™] 5G

Illuminated PCB switch sealed up to IP67

PANEL SOLUTIONS

APEM offers dedicated solutions of complete HMIs or remote controls, based on its knowledge of keyboard technologies and their integration, but also the right selection of high-quality components.

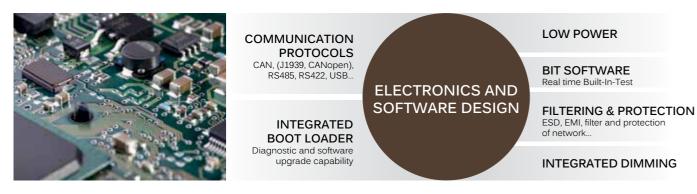
By combining the expertise acquired in the construction market and its environment during the last decades, APEM provides the most suitable solution to its customers.

TECHNOLOGIES MASTERED BY APEM AND ADAPTED TO CONSTRUCTION EQUIPMENTS:



ELECTRONIC & SOFTWARE

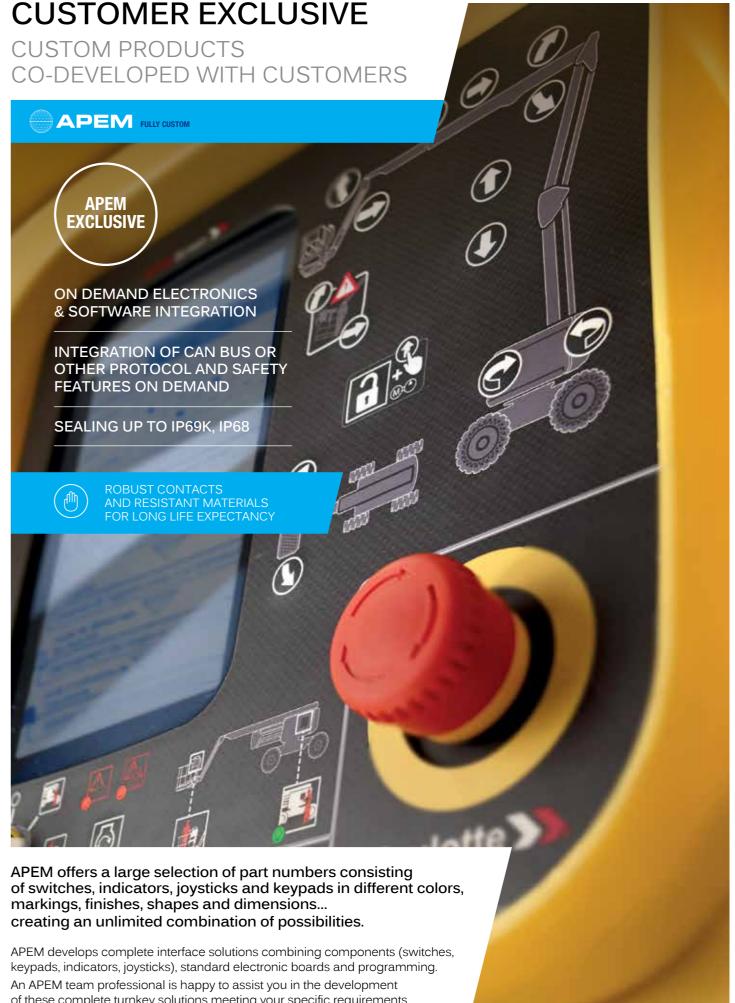
PERFORMANCE - APEM's Panel Solutions ensure the highest performance to electronics, environmental and EMC/EMI standards. EFFICIENT INTEGRATION - APEM designs electronics and connector systems to fit most applications.



SAFETY

APEM offers standard SIL2 compliant components but also develops custom PLx (AgPLx, MPLx, ...), SILx solutions as per customer requests.

CUSTOMER EXCLUSIVE



of these complete turnkey solutions meeting your specific requirements, with responsiveness and flexibility.

OUR PRODUCTS SOLUTION, LET APEM'S DECADES OF EXPERIENCE WORK FOR YOU

WHETHER IT'S A STANDARD PRODUCT OFFERING OR A CUSTOMIZED



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XD SERIES

HALL EFFECT ROBUST JOYSTICK

TOP APPLICATIONS: LOADER, EXCAVATOR, TELEHANDLER, MINING

HJ SERIES

HALL EFFECT ROBUST JOYSTICK

TOP APPLICATIONS: LOADER, DUMP TRUCK





DESIGNED FOR CONSTRUCTION

• Extr		CHANICAL AXIS TECHNO			low mo above				 Up to 1780 N - 400 lbf horizontal lo (depending on handle) SIL2 / Pld capable 				
SERIES	MECHANICAL LIFECYCLES	AXIS	TECHNOLOGY	Single	Dual	OUTPUT	OPTIONS PWM	USB	CAN bus	MOUNTING OPTIONS	ABOVE PANEL SEALING		
XD	10 million		Hall effect	x	x	Arladog Prvivi OSB Crivitals Image: Arladog Image: Arladog Image: Arladog Image: Arladog Image: Arladog					IP67		

HEAVY DUTY AND FIELD PROVEN

 5M cycles Standard or c CAN options 	• L	 Up to IP69K Up to 180 Nm horizontal load (depending on handle) SIL2 / Pld capable 									
SERIES	MECHANICAL	AXIS	TECHNOLOGY				OPTIONS			MOUNTING OPTIONS	ABOVE PANEL SEALING
	LILEOTOLLO			Single	Dual	Analog	PWM	USB	CAN bus	of fields	OE/ LINO
HJ	5 million	1, 2, 3	Hall effect	х	х	х		х	х	Drop-in or rear mounting	IP69K



XF SERIES

SMALL HALL EFFECT JOYSTICK

TOP APPLICATIONS: COMPACT VEHICLES, ROAD CONSTRUCTION, MINING



PREMIUM HALL EFFECT JOYSTICK

TOP APPLICATIONS: LOADER, ROAD CONSTRUCTION





AVAILABLE WITH CAN BUS

- Many outputs available, including CAN bus J1939

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

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

COMPACT, PRECISION HALL EFFECT JOYSTICK

	cision contac nnology	tless Ha	all effect	• Corr	npact fo	r low pi	ofile ap	plicatio	ns •	Robust with over 10 mechanical lifecycle	
SERIES	MECHANICAL LIFECYCLES	AXIS	TECHNOLOGY	Single	Dual	OUTPUT Analog	OPTIONS PWM	USB	CAN bus	MOUNTING OPTIONS	SEALING
3000	10 million	1, 2, 3	Hall effect	all effect X X X X Drop-in or rear more							IP67

HR SERIES

PROPORTIONAL THUMBWHEEL

TOP APPLICATIONS: EXCAVATOR, TELEHANDLER, SKID STEER

CW SERIES

MINIATURE PROPORTIONAL THUMBWHEEL

TOP APPLICATIONS: EXCAVATOR, TELEHANDLER, LOADER





ROLLER AVAILABLE WITH MANY OPTIONS

- Up to 5M cycles
- Electronics sealed up to IP68

• Available with detents, friction, latching and 360° infinite wheel

- 7 colors and 4 shapes in standard
- Illumination of the body in option
- SIL2 / Pld capable

SERIES	MECHANICAL	AXIS	TECHNOLOGY			OUTPUT	OPTIONS			MOUNTING	SEALING
SERIES	LIFECYCLES	AXIS	TECHNOLOGY	Single	Dual	Analog	PWM	USB	CAN bus	OPTIONS	SEALING
HR	5 million	1	Hall effect	х	х	х				Rear mounting	IP68

MINIATURE ROLLER

• Up to 3M cyc • Snap-in mou						Custom a Spring to		on requ	est		
SERIES	MECHANICAL	AXIS	TECHNOLOGY				OPTIONS			MOUNTING OPTIONS	
	2 2010220			Single	Dual	Analog	PWM	USB	CAN bus	01 110110	
CW	3 million	Single	Hall effect	х	х	х	х			Snap-in	

SEALING

TS SERIES

PROPORTIONAL HALL EFFECT THUMBSTICK

TOP APPLICATIONS: TELEHANDLER, EXCAVATOR, LOADER

NV SERIES

NAVIGATOR SWITCH

TOP APPLICATIONS: ROAD CONSTRUCTION, TELEHANDLER







PRECISION FINGERTIP CONTROL

• Ergonomically designed for repetitive operation

• Illuminated version available

- Highly reliable: up to IP67 and IP69K sealing
- Easy integration with rear or drop-in mounting & compact size
- Available with multiple handle options and material

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

IDEAL AS DISPLAY CONTROLLER

• Available wi	omentary micro ith "push to valid n display menu			 Enhanced tac Easy integrati Sealed up to 	ion in joystick ha	andle	
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

BHN/BL SERIES

PROPORTIONAL PADDLE

TOP APPLICATIONS: DUMP TRUCK, ROAD CONSTRUCTION

FNR ROCKER SWITCH

TOP APPLICATIONS: EXCAVATOR, LOADER, TELEHANDLER







STYLISH AND ROBUST

• Available in 2 l • Soft touch scu			5 color optionsSealed up to IP67					 Custom actuator on request SIL2 / PLd capable 			
SERIES	MECHANICAL LIFECYCLES	AXIS	TECHNOLOGY	Single	OUTPUT OPTIONS Single Dual Analog PWM				CAN bus	MOUNTING OPTIONS	SEALING
BHN/BL	10 million	Single	Hall effect	х	х	х	x			Drop-in	IP67

FOR EFFORTLESS FORWARD/REVERSE CONTROL

• 2 or 3 position: or maintained		• Sealed u • 1 NO/NC	p to IP67 in each direction	Illumination with markingSIL2 / PLd capable				
SERIES	POLES	MAXIMUM RATINGS			MOUNTING OPTIONS	SEALING		
FNR	2 NO+NC	1A /24V	Ø20 mm (787 in)	Flying leads, solder lugs	Panel	IP69K & IP67		

CONSTRUCTION MACHINERY

FNR SERIES

PANEL SWITCHES

IX SERIES

DUSTPROOF PUSHBUTTON SWITCH

IA SERIES

TOP APPLICATIONS: EXCAVATOR, LOADER, TELEHANDLER

COMPACT PUSHBUTTON SWITCH

TOP APPLICATIONS: EXCAVATOR, LOADER, TELEHANDLER





THE REFERENCE IN THE CONSTRUCTION INDUSTRY

	of: Membrane o between actuat		rost, sand and hydr ush on panel		Sealed up to IP67SIL2/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		

THE NEXT STANDARD

• Compa • Availab	ct le with backlit r	marking ne • Fi	ustproof: Membra o gap between ac rost, sand and hyc esistant	tuator and panel • Se	ush on panel aled up to IP67/IP69K _2/Pld capable	
SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS	MOUNTING OPTIONS	SEALING
IX	IX 1 NO/NC 2A 28VDC		Ø12 mm (.472 in)	Solder lugs / Wire leads	Panel	IP67 IP69K



ne on	top	with
tuator	and	panel
rooork	200	

IM / IP / IS SERIES

COMPREHENSIVE PUSHBUTTON RANGE

TOP APPLICATIONS: SKID STEER LOADER, GRADER, TELEHANDLER

IHS / IHL SERIES

HALL EFFECT PUSHBUTTON RANGE

TOP APPLICATIONS: BACKHOE LOADER, EXCAVATOR





• Compact • Available		nation	and	ailable with sr d audible tact rking in optio	ile feedbac	k (IM)	 Sealed up to IP67 Momentary or latching Up to SIL2/Pld capable 				
		MAXIMUM		MOUNTING		TERMINAL	OPTIONS				
SERIES	POLES	RATINGS			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	x	Ø 12 mm (.472 in)	Panel	х	х	х	х	IP67	
IP latching	1	(2A 250VAC)* 4A 12VDC	x	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	x		IP67	



HALL EFFECT TECHNOLOGY

-	e: 5M cycles ect 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				

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* See applicable approvals

PANEL SWITCHES

FD SERIES

DOUBLE ICON ILLUMINATED PUSHBUTTON SWITCH

TOP APPLICATIONS: CONSTRUCTION MACHINERY DASHBOARD (ENGINE START)

AV30 START STOP

METAL PUSHBUTTON

TOP APPLICATIONS: CONSTRUCTION MACHINERY DASHBOARD (ENGINE START)





DOUBLE ICON ILLUMINATED PUSHBUTTON

	 • 3 standard legends (0/1, START/STOP, ON/OFF) • Threaded or snap-in versions • Sealed up to IP69K 												
SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	Solder lugs	Quick connect	TERM Screw	PCB	Flying leads	Wire Wrap	Cable	MOUNTING OPTIONS	SEALING	ILLUMINATION
FD	1,2	4A 12VDC 200mA 12VDC	Ø24 (.944) Ø26 (1,024)	х							Panel, Snap-in or threaded bushing	IP69K (threaded bushing)	х

RUGGED METALLIC PUSHBUTTON

	 Robust pushbutton Stainless steel actuator and bushing 								 Appealing aesthetics Easily customizable: marking, illumination 					
SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	Solder lugs	Quick connect	TERM Screw	PCB	Flying leads	Wire Wrap	Cable	MOUNTING OPTIONS	SEALING	ILLUMINATION	
AV	NO/NC	1 A 30 VDC	Ø30 (1.18)	x	x		x	x		x	Panel	IP67	x	

KH / KL / KR SERIES

ROCKER SWITCH

TOP APPLICATIONS: DUMP TRUCK, LOADER



SEALED ROCKER SWITCH

TOP APPLICATIONS: CONCRETE CUTTER



SEALED, CUSTOMIZABLE ROCKER

ProtectPatente	•	• Up to IP68/IP69K							
050150	50150		BUSHING	MOUNTING OPTIONS	TE	RMINAL OPTIO	NS		
SERIES	POLES	ES MAXIMUM RATINGS	DIMENSIONS		Solder lugs	Quick-connect	Screw	SEALING	ILLUMINATION
KR	1, 2	20A 12VDC	36.8 x 21.08 mm	Panel	х	х	х	IP68 or IP69K	х
KL	1, 2	10A 24VDC	36.8 x 21.08 mm	Panel	х	х	х	IP68 or IP69K	х
КН	1, 2	10A 24VDC	36.8 x 21.08 mm	Panel	х	x	х	IP69K	х

SELECTOR SWITCHFOR ERGONOMIC INTERFACE

• Env	Environmentally sealed (IP68) Multiple functions available						 Various contact materials that allow usage from dry circuit applications up to 4 A 						
SERIES	APPROVALS	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	Solder Quick Screw PCB Flying Connec- lugs connect tor						MOUNTING OPTIONS	SEALING	ILLUMINATION
MT			4A 30 VDC	Ø17,46	х			х			Panel, Vertical- Though hole	IP68	

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IDEC **CW SERIES**

MODULAR AND STYLISH PUSHBUTTON

TOP APPLICATIONS: ROLLER, GRADER, PAVER

IDEC **MW SERIES** FOR DEMANDING ENVIRONMENTS

TOP APPLICATIONS: ROLLER, GRADER, PAVER



NEW INDUSTRIAL STYLE

Stylish desigSealed up to	n 9 IP67 with rubber	r boot option		Illumination in optionSelector switch available					
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)		



 Dustproof: r Sealed up t 	no 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)	



PANEL SWITCHES

IDEC XA / XW SERIES ROBUST EMERGENCY STOP

ES SERIES HEAVY DUTY METAL SAFETY SWITCH

TOP APPLICATIONS: ROAD CONSTRUCTION



TOP APPLICATIONS: ROAD CONSTRUCTION







METAL SAFETY SWITCH

 Sealed up to IP65, IP67 & IP69K Compact body 				Complies with EN60947-5-1Impact resistant to IK10				
SERIES	POLES	MAXIMUM RATINGS	BUSHING DIMENSIONS	TERMINAL OPTIONS Solder lugs PCB		MOUNTING OPTIONS	SEALING	
ES	2,3	1A 24VDC	Ø22.28 mm (.877 in)	x	x	Panel	IP65 IP67 IP69K	

«SAFE BREAK ACTION» TECHNOLOGY

the m		hnology ensuring		• Compact be • Available wit • Twist or pull			
SERIES	SAFE BREAK TECHNOLOGY	PANEL CUT OUT	OPERATOR SIZES	NUMBER OF CONCTACTS	TERMINAL CONNECTION	OPERATION	ILLUMINATION
XA	х	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

MULTIMEC 5 SERIES

TACTILE PCB SWITCH

TOP APPLICATIONS: LOADER, TELEHANDLER





MARKET LEADER

- High current rating
- Very broad range: 5 finishes, 6 levers styles, 3 types of locking, 3 types of terminals...

			MAXIMUM	BUSHING	MOUNTING		т	ERMINAL (OPTIONS				
SERIES	APPROVALS	POLES	RATINGS	DIMENSIONS			Quick-connect	Screw	PCB	Flying leads	Connector	SEALING	
3500	CECC	1,2	15A 28VDC	Ø12.2 mm (.49 in)	Panel	х	х	х				IP67 IP69K	
СТ	UL	1,2	10A 125/250 VAC	Ø12.2 mm (.48 in)	Panel	х	х	х			х	IP67	

• Sealed up to IP67/IP69K

• Available accessories: guard and boot

LARGE SELECTION OF STANDARD ACCESSORIES

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



INDICATOR

Q SERIES

LED INDICATOR

TOP APPLICATIONS: ROAD CONSTRUCTION, LOADER

KP6 CAN BUS KEYBOARD

RUBBER KEYPADS

TOP APPLICATIONS: LOADER, GRADER, EXCAVATOR





LARGE VARIETY OF SIZES AND COLORS

				Dptional sealiı Many different			Available with custom and secres sizes until lit legends		
SERIES	PANEL CUT-OUT	MAXIMUM RATINGS	BEZEL STYLES	BEZEL FINISHES	TE	TERMINAL OPTIONS Fastons Pins Wire		TYPE 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	х	Fixed light, bi-color, RGB, night vision	Suitable for in cab use and outside use which are daylight viewable

STANDARD SOLUTION FOR MULTIPLE BUTTON APPLICATIONS

 CAN bus or direct wiring output options CAN solution e-marking qualified (EMI, EMC) Backlit and quick front assembly 			 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

ENHANCED KEYPADS

TOP APPLICATIONS: ALL CONSTRUCTION EQUIPMENTS AND VEHICLES

CUSTOM KEYBOARD

METAL AND RUBBER KEYBOARDS

TOP APPLICATIONS: ALL CONSTRUCTION EQUIPMENTS AND VEHICLES



ENHANCED MEMBRANE KEYPADS

Plug and play productBacklighting	IP67/IP69K sealingUp to SIL2/Pld capable			
CUSTOMISATION 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 SOLUTION

Rear or front panel mountingBacklighting
CUSTOMISATION OPTIONS
ntegration possible of all APEM products
Design for outdoor and dusty environment
APEM Available Communication Protocols as a standard : CAN bus, RS485/422 LISB

IP67/IP69K sealing

Up to SIL2/Pld capable



70 70 years of trust built on quality

1,400 EMPLOYEES WORLDWIDE (ξ)

50,000 + PART NUMBERS

WORLDWIDE SALES & CUSTOMER SUPPORT

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