

KEYPAD MODULE

KPM-G21 / KPM-G210



KEY FEATURES

- + **White Backlit Keys** With Green Status Indicator
- + **Customizable** Key Icons
- + **Can Bus** Communications
- + **Super Bright Leds**, Wide Viewing Angle
- + **Integrated I/O Driver** – Optional
- + **Waterproof** Aluminium Housing

Keypad module **KPM-G21** uses two distinct keys, it is highly resistant to weather conditions and can survive extreme environments, what makes it perfect for installation outside or inside driver cabin. The keys are large, well-spaced and embossed, allowing a reliable pressure sensation with a tactile feedback even when wearing protective gloves. Each key has a large green LED Status Indicator above the icon.

Type KPM-G210 has an integrated I/O controller with two low side power outputs and two inputs that can be useful if the keypad is used as a stand-alone device, not connected to the MMX system.

Keypad is programmable. Each key can be configured to operate as a switch or push button. Key label graphics are customizable, white backlit and coloured according to function groups for easy recognition. Unused keys can be screened off with a dark label.

Labels are inserted at the inner side of the front panel of the keypad. Several keypads located on different places can be connected over CAN BUS to collaborate. Keypad modules series KPM-G are a perfect solution in automotive, nautical, agriculture, utility vehicles and industrial sectors.

SPECIFICATIONS

POWER

Supply Voltage 8-32 V DC

Current 100 mA maximum

Electrical Protection overvoltage, transients, reverse polarity, load dump

INTERFACES

CAN 1 x CAN (only type without I/O driver)

CAN termination 120 ohm, DIP switch

ENVIRONMENT

IP Class (IEC529) IP67, waterproof

EMC Conformity EN61000-6-2 noise immunity
EN61000-6-4 radiation of interference

Temperature Range storage -40° to +85°C (-40° to 185°F)
operating -40° to +85°C (-40° to 185°F)

KEYS

Key Backlite white LED

Status Indicator super bright green LED bar

Icons customizable key icons

Key Design RIM-embossed keys with tactile feedback, dimesion
23 x 23 mm

Operating Life >250.000 cycles

ENCLOSURE

Housing Material Aluminium

Mounting in-dash, with 4 screws M3 or 3.5 mm (#8) tapping
screws

Connector Deutsch DT06-06S

I/O - ONLY VERSION WITH INTEGRATED IO DRIVER

Digital Inputs 2 x active low level

Digital Outputs 2 x negative switching (low-side), max. 2 A

Loads inductive, capacitive, resistive

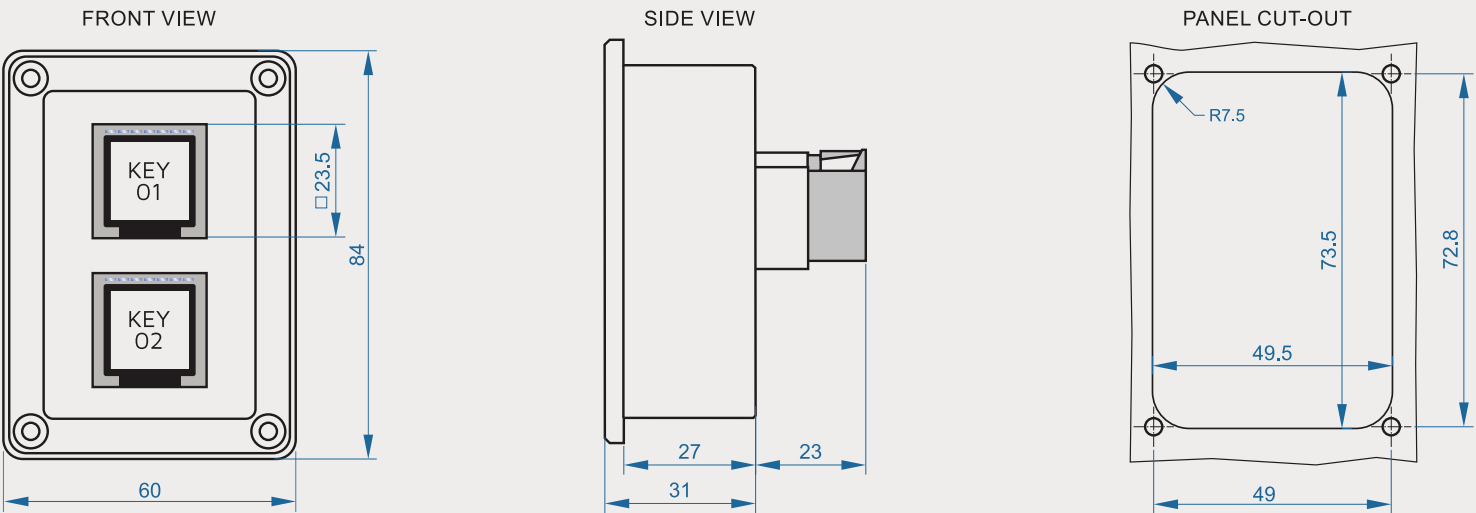
Miscellaneous outputs not protected

SIZE & WEIGHT

W x H x D 60 x 84 x 33 mm without connector

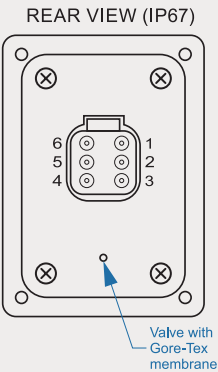
Weight 0.21 kg

DIMENSIONS



CONNECTIONS

CAN BUS MODULE	
CONNECTION DEUTSCH DT06-6S	
PIN	Description
1	BATTERY + ("15")
2	CAN L
3	CAN L, int. shorted to PIN 2
4	CAN H
5	CAN H, int. shorted to PIN 4
6	BATTERY -



STAND-ALONE MODULE WITH I/O	
CONNECTION DEUTSCH DT06-6S	
PIN	Description
1	BATTERY + ("15")
2	INPUT 1
3	OUTPUT 1
4	OUTPUT 2
5	INPUT 2
6	BATTERY -

PRODUCT CODE

Ordering code example:

K	P	M	-	G	2	1	0					
				SIGNAL INDIC.	KEY CONFIGURATION		I/O	SPECIAL FEATURES / APPLICATION				
				G: GREEN	21: 2-ROW, 1-COLUMN		O: I/O INTEGRATED					