KBD-PR-1806

PR series

Stainless steel keypads with round keys

DISTINCTIVE FEATURES

Recessed, flush or raised key according to panel thickness
Rear or front mounting
Compact version: 14 mm round keys
Panel sealed to IP65
Custom markings on request

ENVIRONMENTAL SPECIFICATIONS

- Front sealing : IP65 according to DIN 40050-9
- Operating temperature : -20 °C to +70 °C (-4 °F to +158 °F)
- Storage temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Impact resistance : IK07 according to EN 50102
- Flame resistance : UL94 HB horizontal position (30 seconds max).
- Salt spray : 96 hours according to IEC 512-6, test 11f
- Washable : most commonly used detergents and solvents

ELECTRICAL SPECIFICATIONS

- Output type : matrix (NO contacts)
- Max. current/voltage rating with resistive load : 50 mA at 12 VDC
- Initial contact resistance ON : 10Ω max.
- Insulation resistance : 1GΩ min. at 500 VDC
- LED backlight : 12 VDC (standard version)

GENERAL SPECIFICATIONS

- Contact force : 4 N ± 0.5 N (non-illuminated version)
  3.5 N (illuminated version)
- Stroke : 0.5 mm (.019)
- Low level or mechanical life : 1 million cycles
- Panel thickness : 2 mm (.078) (standard version)
- Connection : male connector

The company reserves the right to change specifications without notice.

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MATERIALS

- Keytops : 316L stainless steel
- Keys : ABS or PA6 nylon (illuminated versions)
- Key holders : ABS UL VO
- Frame : 304 stainless steel
- PCB : FR4
- Seal : 0.4 mm thick silicone
- Actuator : stainless steel snap domes AISI 304
- Contacts : gold plated

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

MODELS		NO OF KEYS		FRAME		ILLUMINATION	
PR0	Ø 14 (.551) round keys	01	1 key	0	No frame	0	Non-illuminated
PRR	Ø 14 (.551) round keys, smaller PCB size	04	4 keys	1	With frame, rear mounting (not available on 1-key models)	L	Illuminated
PRN	Ø 14 (.551) round keys, navigator layout, 4 or 5 keys	05	5 keys	2	With frame, front mounting (only 12-key PRR models)		
		12	12 keys				
		16	16 keys				

OPTIONS

LED COLORS		VOLTAGE		MARKING	
XX	No LED	XX	Without	0	Blank keys
0R	Red	05	5 VDC	S	Standard marking
0B	Blue	12	12 VDC	C	Custom marking
0G	Green	24	24 VDC		
0Y	Yellow				

ABOUT THIS SERIES

Some configurations are shown on the following pages. Other drawings are available on request.

Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

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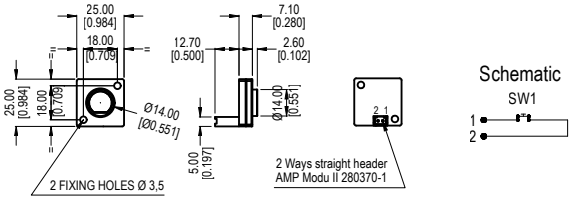
SINGLE KEY MODEL - NON-ILLUMINATED

PR00100

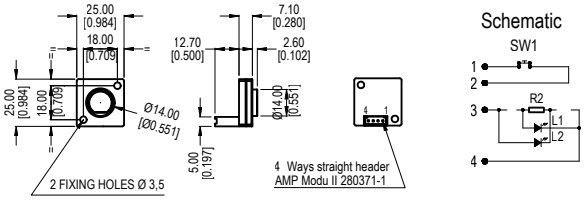
Customer Panel CUT-OUT Ø 14.5 mm



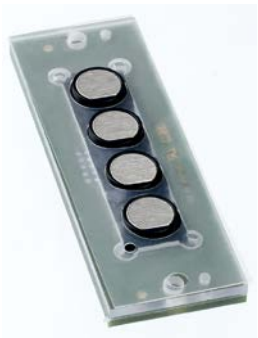
SINGLE KEY MODEL - ILLUMINATED

PR0010L

Customer Panel CUT-OUT Ø 14.5 mm

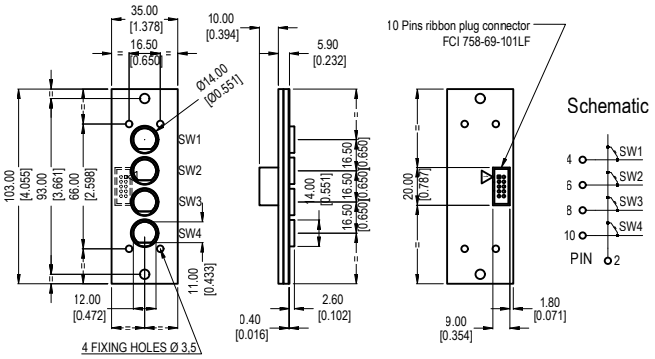


4-KEY MODEL - NON-ILLUMINATED



PR004000

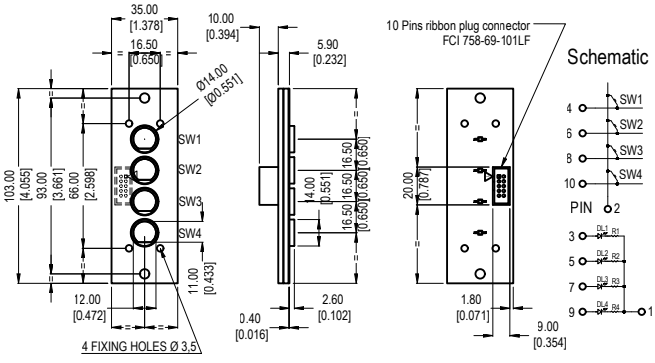
Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,5 mm) n. 4 holes diam 14,5 +0.1/-0 mm



4-KEY MODEL - ILLUMINATED

PR0040L

Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,5 mm) n. 4 holes diam 14,5 +0.1/-0 mm



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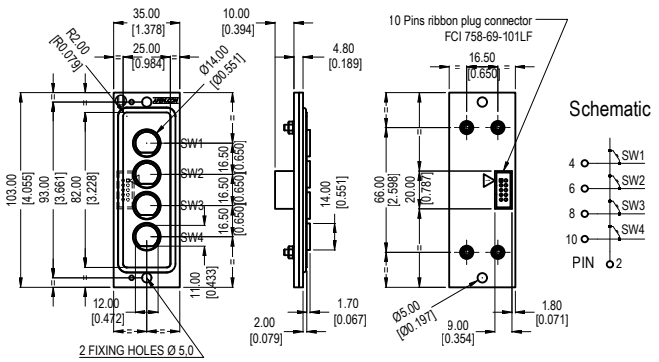
4-KEY MODEL - WITH FRAME
REAR MOUNTING - NON-ILLUMINATED

PR00410

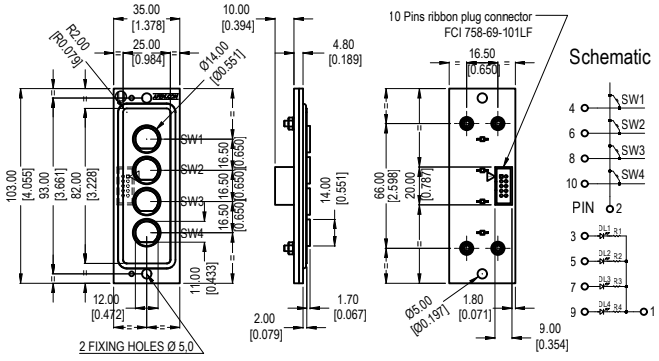
Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,0 mm) 25,5 x 82,5 x R2,25 mm +/-0.1



4-KEY MODEL - WITH FRAME
REAR MOUNTING - ILLUMINATED

PR0041L

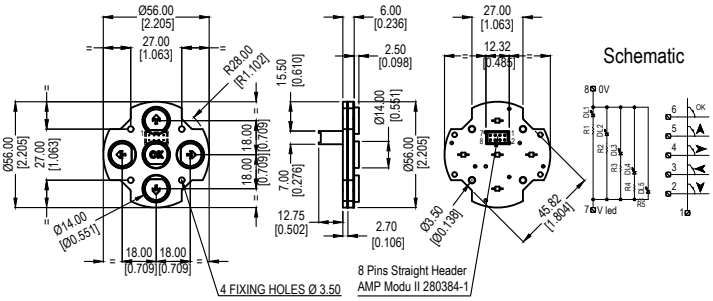
Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,0 mm) 25,5 x 82,5 x R2,25 mm +/-0.1



5-KEY NAVIGATOR - ILLUMINATED

PRN050L

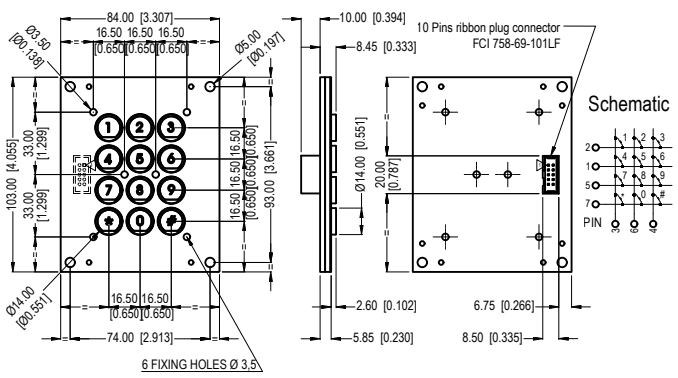
Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,5 mm) n. 5 Holes Ø 14,50 +0.1/-0 mm



12-KEY MODEL - NON-ILLUMINATED

PR01200

Customer panel CUT-OUT: (Panel thickness from 1,5 to 2,5 mm) n. 12 holes Ø 14,50 mm +0.1/-0



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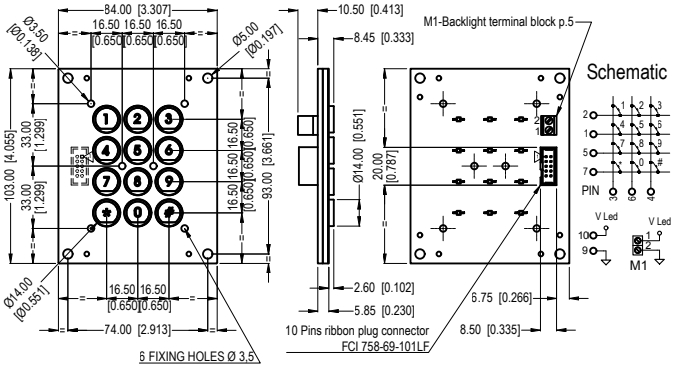
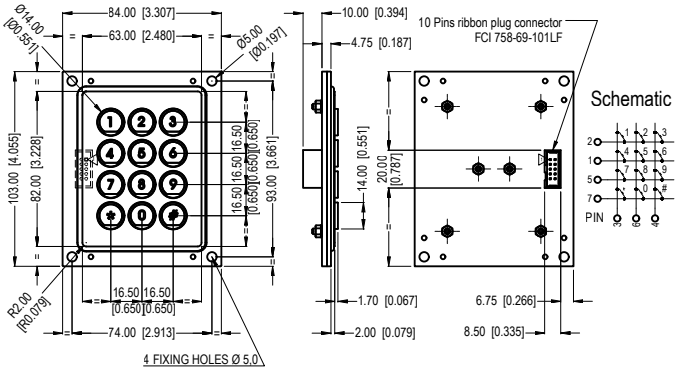
12-KEY MODEL - ILLUMINATED

PR0120L



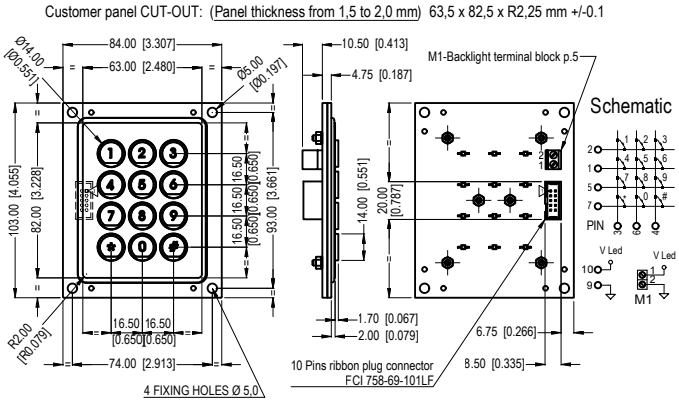
12-KEY MODEL - WITH FRAME REAR MOUNTING - NON ILLUMINATED

PR01210



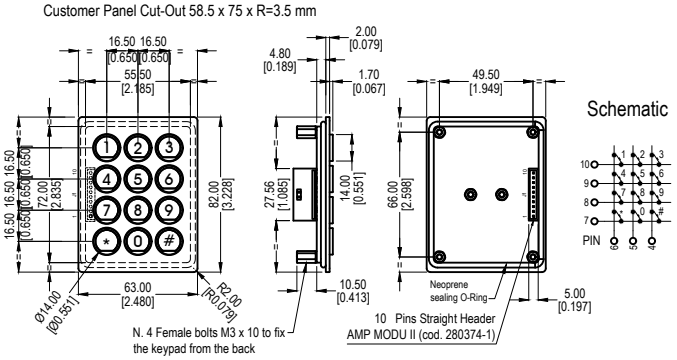
12-KEY MODEL - WITH FRAME REAR MOUNTING - ILLUMINATED

PR0121L



12-KEY MODEL - WITH FRAME SMALLER PCB SIZE - NON ILLUMINATED

PRR1220



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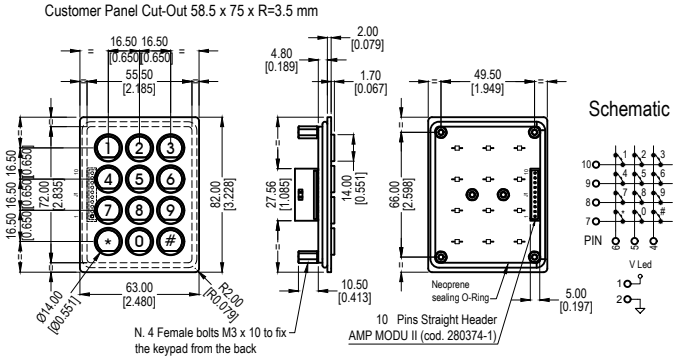
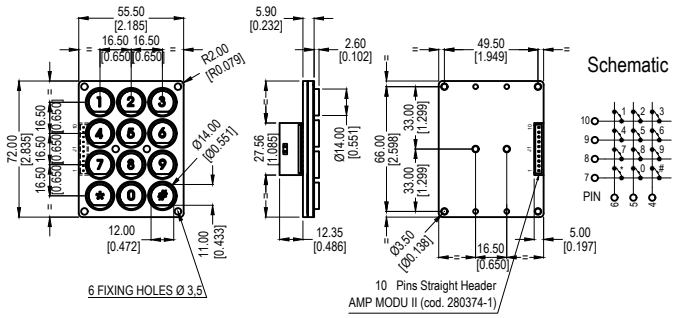
12-KEY MODEL - WITH FRAME SMALLER PCB SIZE - ILLUMINATED

PRR122L



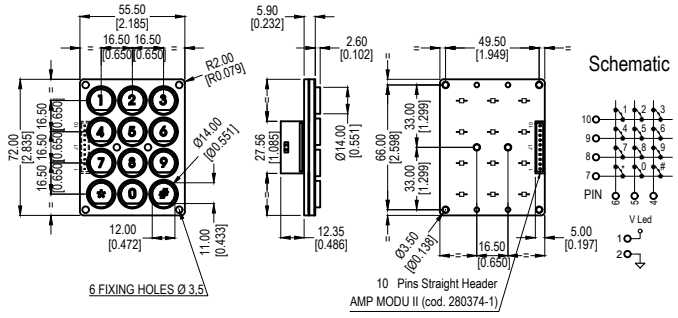
12-KEY MODEL - SMALLER PCB SIZE NON ILLUMINATED

PRR1200



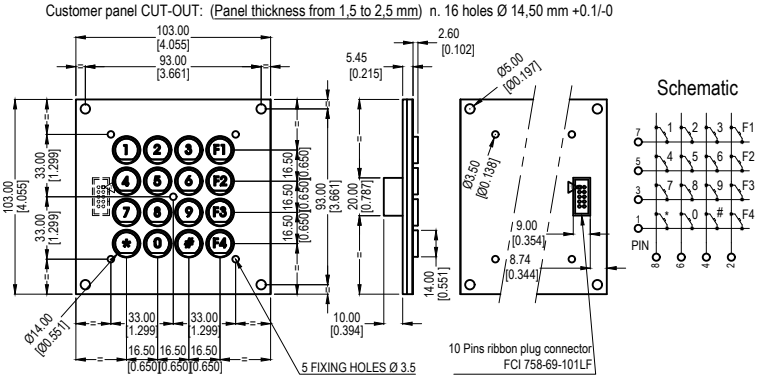
12-KEY MODEL - SMALLER PCB SIZE ILLUMINATED

PRR120L



16-KEY MODEL - NON ILLUMINATED

PR01600



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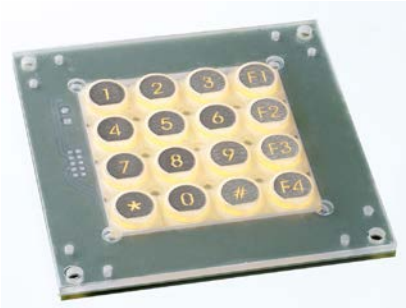
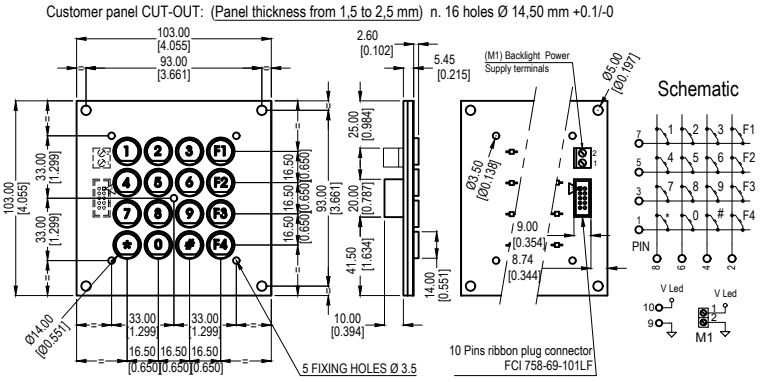
16-KEY MODEL - ILLUMINATED

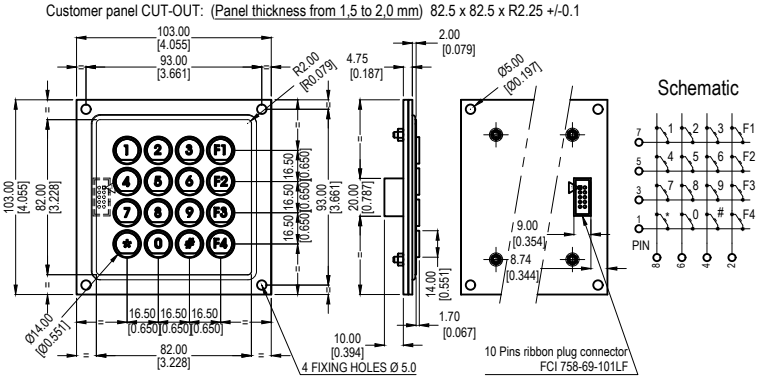


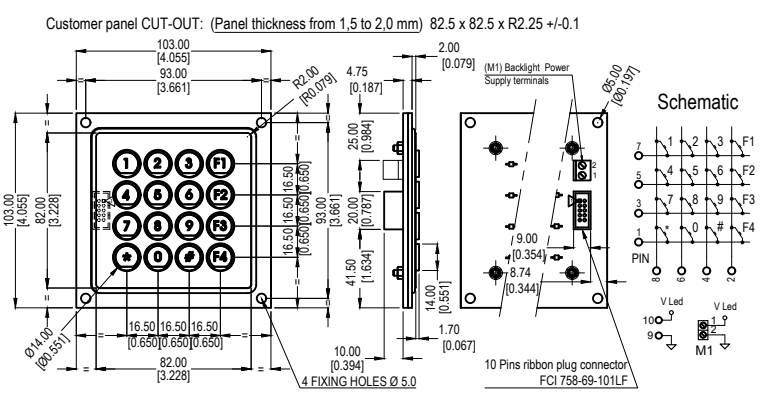
PR0160L



16-KEY MODEL - WITH FRAME REAR MOUNTING - NON ILLUMINATED

PR01610



16-KEY MODEL - WITH FRAME REAR MOUNTING - ILLUMINATED

PR0161L