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PUSHBUTTON

Pushbutton PB series | Panel Container | Vesa Container

www.esa-automation.com

Document description

This datasheet is dedicated to the pushbutton (PB) product line

Product description

PB series is a collection of vandal proof control units.

Precision design, compact structure and nice appearance are the main characteristics of the PB series.

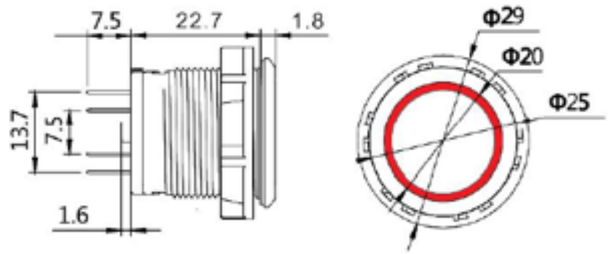
To be used in a variety of special environment and different industry applications.

FEATURES

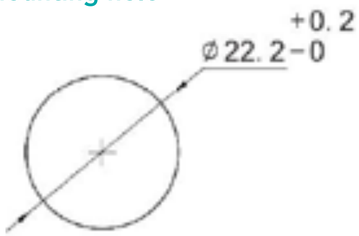
- Compact space saving design, the height is 32mm and can be used in small space.
- Quick assembling.
- Available with momentary or maintained action and with or without led illumination.
- The illumination can be flat/convex or ring.
- Pushbuttons, Emergency switches, selector switches and key selector switches.
- Pilot lamps with ring or flat lenses.
- Quick connection, simple wiring and no tool.
- Slim and stylish design enhances the appearance of the application.
- High intensity illumination, high brightness LED, luminous uniformity color.

Pushbuttons | Pushbuttons ring |Selector switches and Emergency Stop Switch

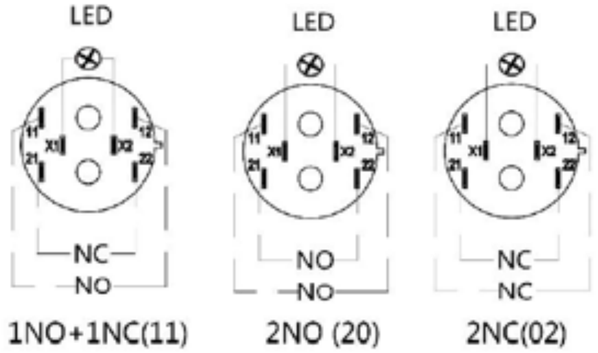
Dimensional drawing



Mounting hole



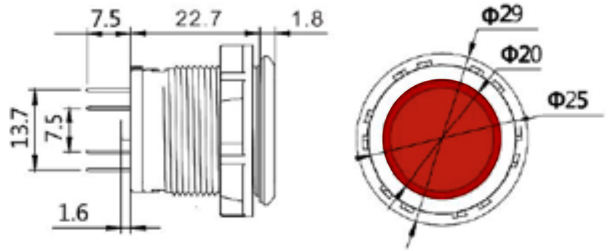
Bottom view



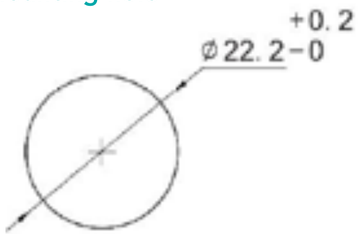
Item	Pushbutton, Selector switch, E-stop	Pilot lamp
Protection degree	IP 65	IP 67
Stroke	3 mm	
Vibration	5 ~ 55 Hz Amplitude 0.5 mm	
Operating temperature	-25°C ~ +55°C (no freezing)	
Storage temperature	-40°C ~ +70°C	
Operating Humidity	40 ~ 85%RH (No Condesation)	
Standard	IEC/EN60947-5-1	
Lamp life		
Model	Life	
LED bulb	30000h	The brightness reduced to 50% of the initial value

Pushbuttons | Pushbuttons ring |Selector switches and Emergency Stop Switch

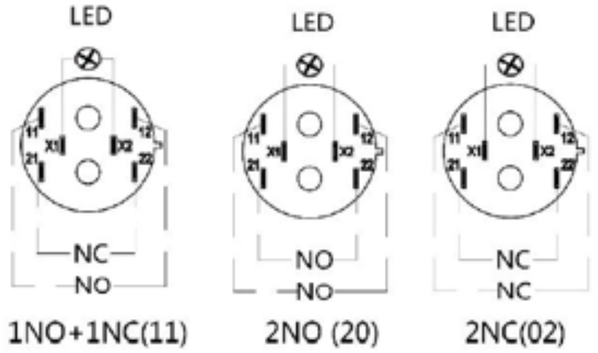
Dimensional drawing



Mounting hole



Bottom view



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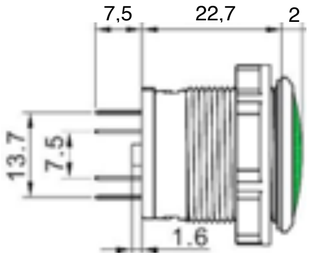
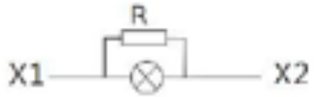
Pilot lamp

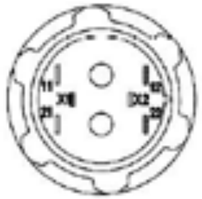
Dimensional drawing



Wiring diagram



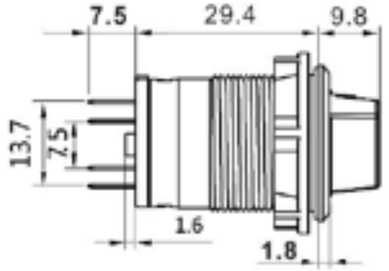
Bottom view

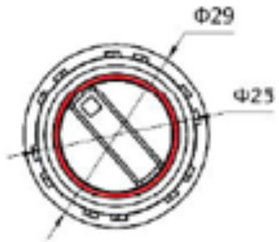


Lighting Form	Singol Color
Rated voltage	24 V DC
Rated current	7 ~ 7.5 mA

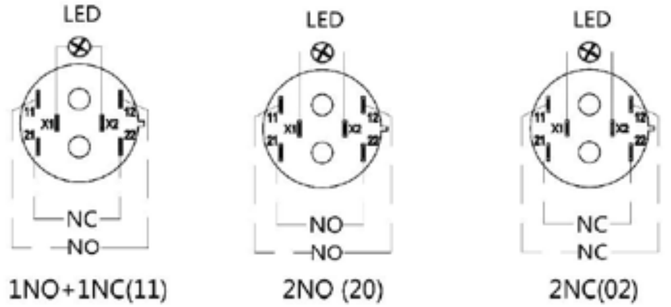
Selector switch

Dimensional drawing





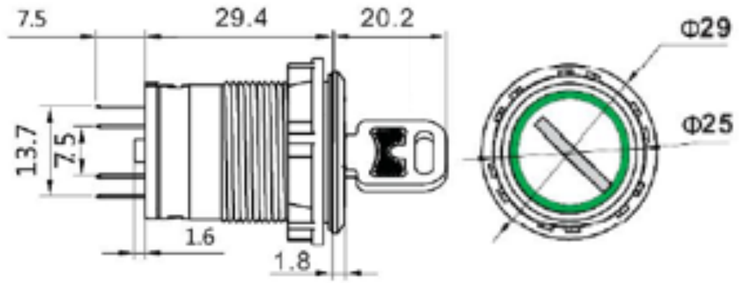
Botton view



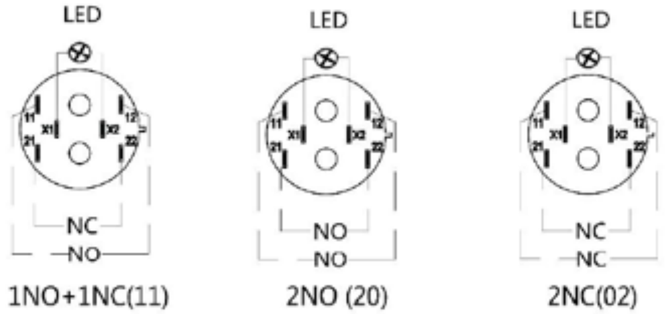
Lighting Form	Singol Color
Rated voltage	24 V DC
Rated current	7 ~ 7.5 mA

Key selector switch

Dimensional drawing



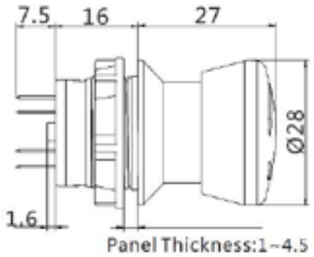
Botton view



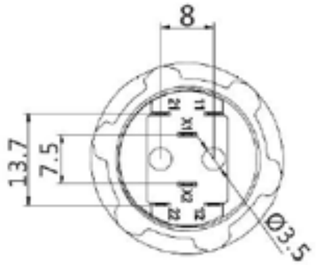
Lighting Form	Singol Color
Rated voltage	24 V DC
Rated current	7 ~ 7.5 mA

Emergency stop switch

Dimensional drawing



Botton view



Action Mode	Press lock - Rotation reset (bilateral rotation, clockwise 25°)
Stroke	3.5mm
Operating force	Maintained: about 17 N - Spring return: about 6 N.m

RFID panel reader

Panel industrial RFID reader for login and logout functions in operator panels.

The small dimensions allow it to be easily applied using a standard 22mm fixing hole.

Available with RFID LF/HF series and NFC technology.

Supported LF transponder	EM4200, HITAGS, Q5, T5577 , EM4550, HDX, FDX
Supported HF transponder	Iso14443A, Iso1443B, Iso15693, Mifare family, NFC family
Power supply	5Vdc
Operating frequency	125kHz ± 2kHz o 13,56Mhz +-7Khz
Working temperature	-20°C ÷ 55°C
Working distance	Up to 30mm
Working mode	Continuous - Polling
Mounting	Panel 22mm hole
Dimensions	98 x 64 x 37 mm

Fingerprint

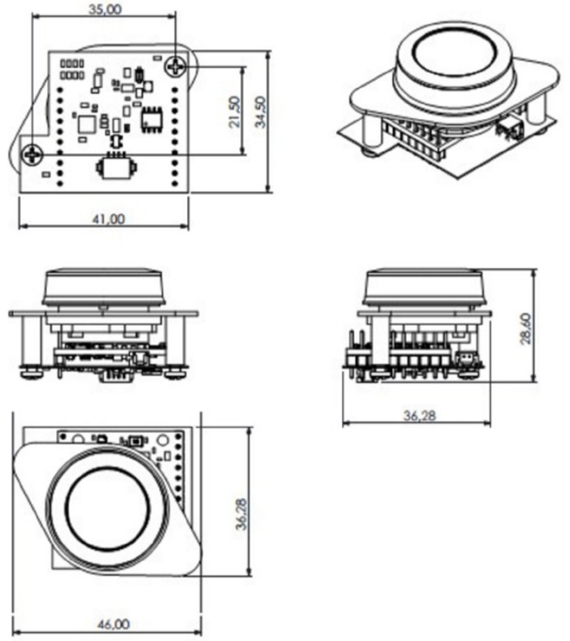
Standard panel 22mm fingerprint sensor for login/ logout via biometric functionality.

Fingerprint processing includes two parts: fingerprint enrollment and fingerprint matching.

When enrolling user needs to enter the finger two times and the sensor will generate the template via matching.

When matching user enters the finger via the optical sensor and the system will generate the live template and compare with templates of the finger library.

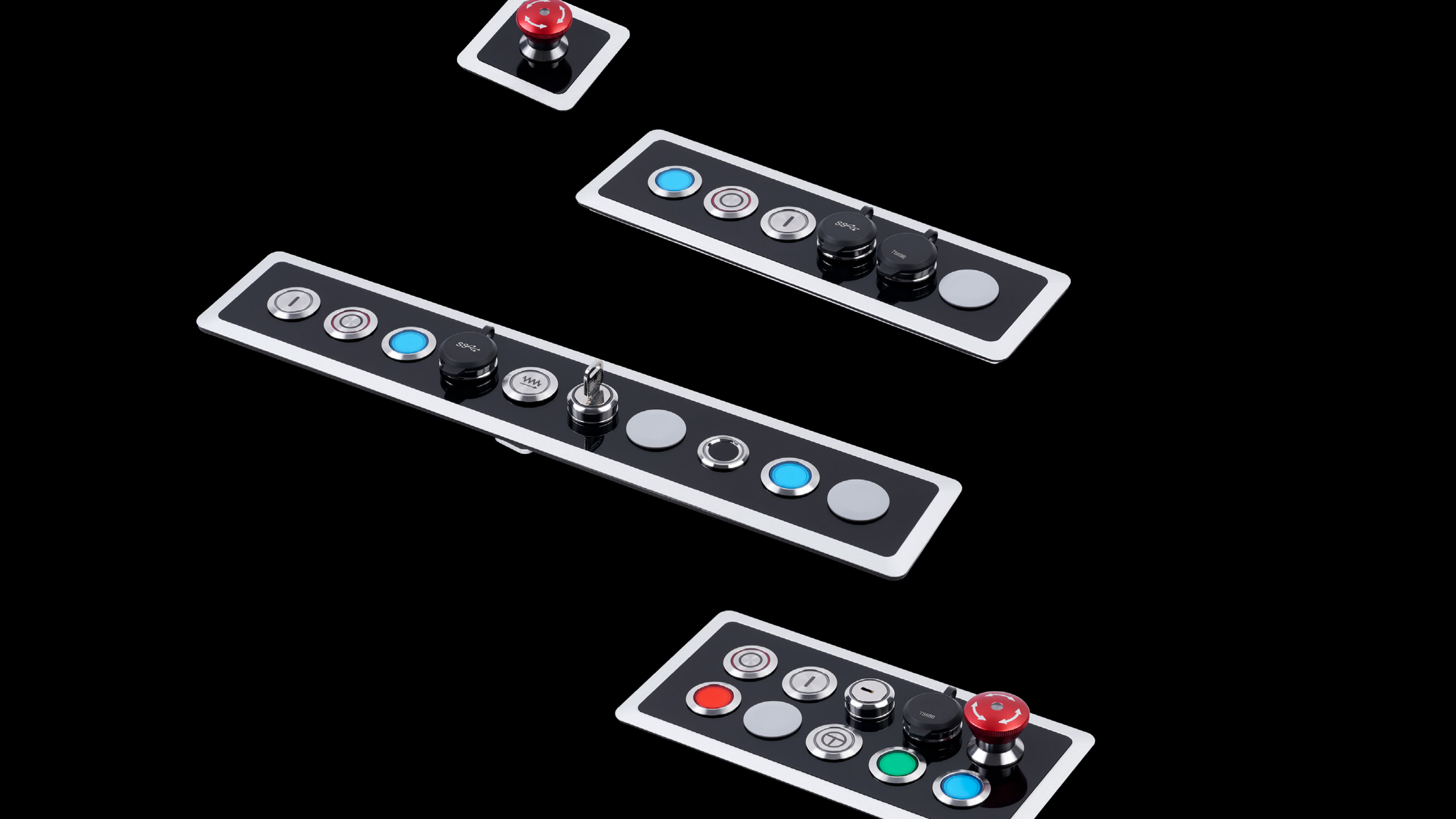
Dimensional drawing



Power	**R503Pro-USB: DC 5V**	**Interface**	**USB**
Working current (Fingerprint acquisition)	20mA	**Matching Mode Matching Time**	1:1 and 1:N 1:N<10ms/ Fingerprint
Standby current (finger detection)	Typical touch standby voltage: 3.3V Average current: 2uA	**Template size**	512 bytes
Baud rate	(9600*N)bps, N=1~ 6 (default N=6)	**Waterproof level**	IP65
Image acquiring time	<0.2s	**Image resolution**	508dpi
Sensing Array	192*192 pixel	**Detection Area**	Diameter 15mm
Storage capacity	1500	**Security level**	3 (1, 2, 3, 4, 5(highest))
Working environment	Temp: -20°C- +60°C RH: 10%-85%	**Storage environment**	Temp: -40°C- +75°C RH: <85%

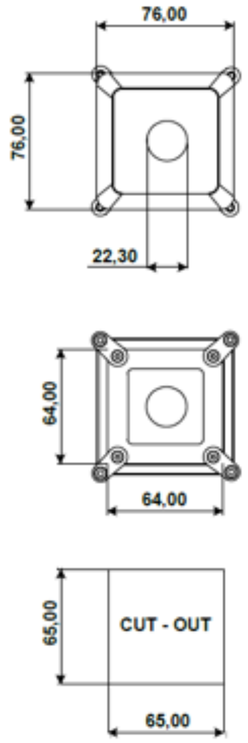
Product code

Code	Description
PBE22XL5C200000	PUSH BUTTON/EMERGENCY/LIGHT
PBG22P000000000	COVER-PLUG
PBK22X00C1N1000	KEY SELECTOR 2 POS/1NC/1N0
PBS22XR1C1N1000	SELECTOR/1NC/1N0/WLIGHT-RING
PB022XL1C1N1000	PUSH-BUTTON/WHITE LIGHT/1NC/1NO
PB022XL2C1N1000	PUSH-BUTTONB/YELLOW LIGHT/1NC/1NO
PB022XL3C1N1000	PUSH-BUTTONB/GREEN LIGHT/1NC/1NO
PB022XL4C1N1000	PUSH-BUTTON/BLUE LIGHT/1NC/1NO
PB022XL5C1N1000	PUSH-BUTTON/REDLIGHT/1NC/1NO
PBI22XL10000000	WHITE LIGHT INDICATOR
PBI22XL20000000	YELLOW LIGHT INDICATOR
PBI22XL30000000	GREEN LIGHT INDICATOR
PBI22XL40000000	BLUE LIGHT INDICATOR
PBI22XL50000000	RED LIGHT INDICATOR
PB022XR5C100S01	RED RING LIGHT 1NC – SYMBOL 0
PB022XR700N1S02	BICOLOR WHITE/GREEN RING 1 NO – SYMBOL I
PBH22X000000500	ETHERNET PORT 500 CM
PBH22X000000050	ETHERNET PORT 50 CM
PBU22X000000500	USB PORT 500CM
PBU22X000000050	USB PORT 50CM



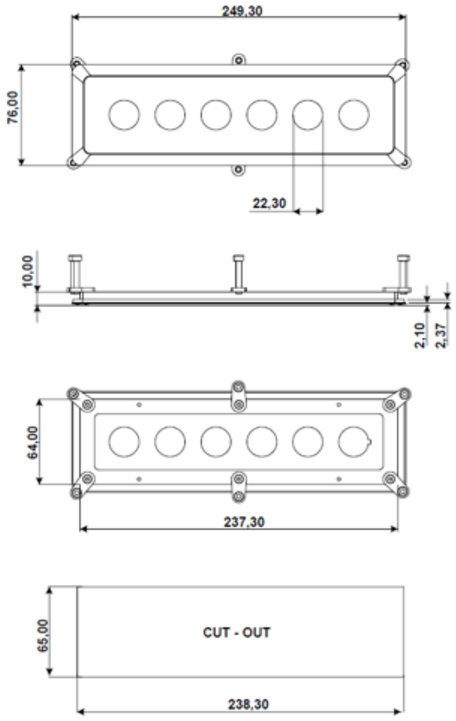
PBOX20110000000

Dimensional drawing



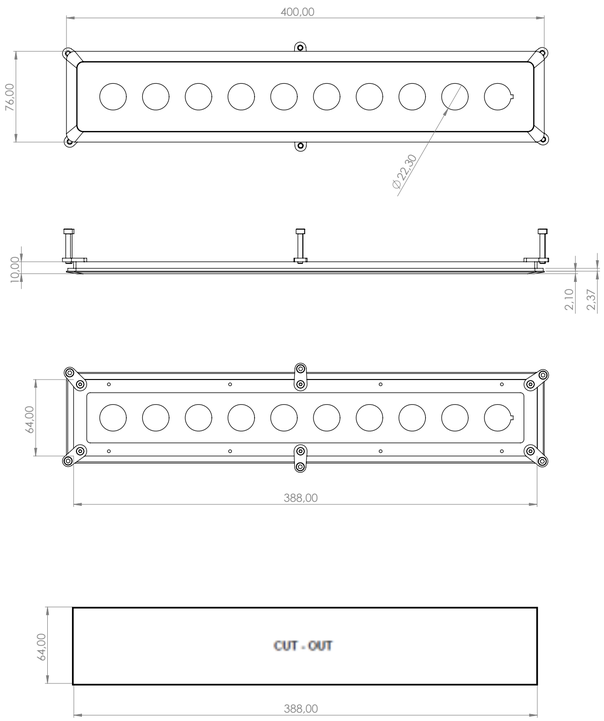
PBOX20610000000

Dimensional drawing



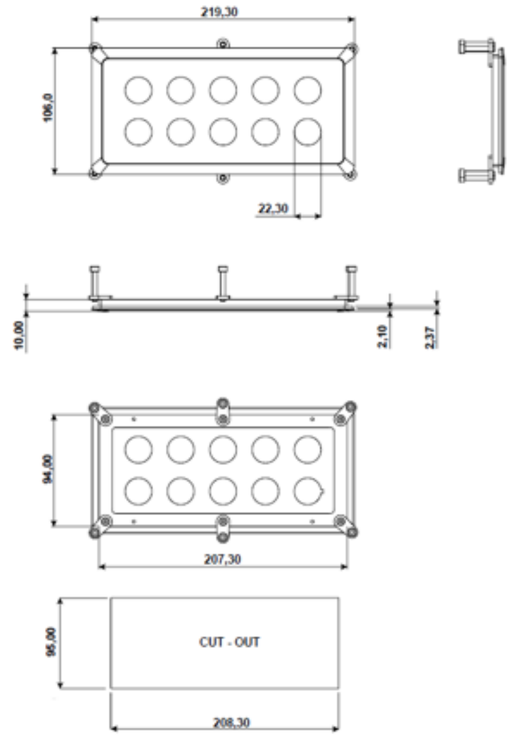
PBOX21010000000

Dimensional drawing



PBOX20520000000

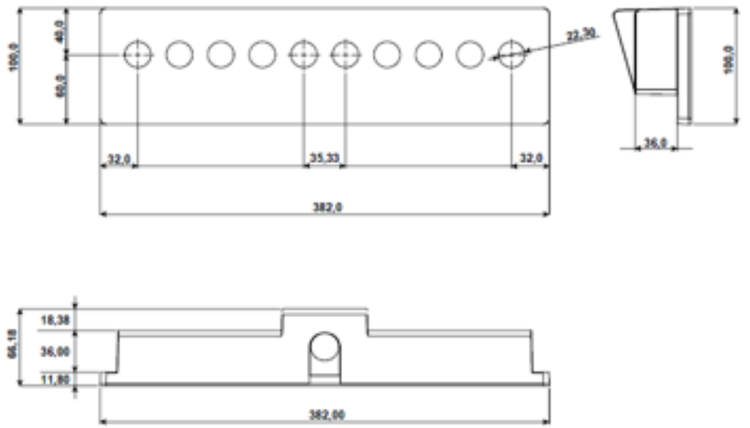
Dimensional drawing



VESA mounting container

PBOX11010000000

Dimensional drawing



Technical Specifications

Panel mounting

Code	Layout
PBOX20110000000	1 SLOT – 1 ROW
PBOX20610000000	6 SLOTS – 1 ROW
PBOX21010000000	10 SLOTS – 1 ROW
PBOX20520000000	5 SLOTS – 2 ROWS

Vesa mounting

Code	Layout
PBOX11010000000	10 SLOTS – 1 ROW

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