



EOZ
SOLUTIONS & COMPONENTS

S.series Keypads

The 12 or 16 key S.series keypads are specially designed for public environment applications, such as vending machines, ticket machines, payment terminals, telephones, access control systems and industrial machinery.

Keys and housing are built from chrome plated zinc alloy (Zamak). The S.series therefore has high resistance to impact and vandalism (IK10) and is also sealed to IP 67.

MOUNTING

The keypad may be mounted from either the front or rear of a panel.

Front mounted keypads require a small cutout for the pin header connector on the back side of the S.series.

Rear mounted keypads are mounted through a rectangular cutout.

To ensure IP 67 sealing a gasket is supplied with the keypad and this is suitable for both forms of mounting.

CONTACTS

To ensure integrity of contacts and lower switch ratings, the contacts are gilded and external connection to the keypad is by means of a pin header on the back.

The electrical keypad circuit can be supplied in a choice of either matrix or common point configuration.

KEYS

The metal anti pull-off keys are highly resistant to shock and fire.

MARKING

Non-illuminated keys are engraved with the characters filled in black.

Custom markings or symbols in different colours are available on request.

Illuminated keys are moulded with characters that are cutout then filled with a clear resistant resin for clear illumination.

ILLUMINATION

On illuminated versions the keys are individually lit with yellow or blue.

LED's which them especially suitable in poorly lit locations. Other LED colours are available on request.

NOTE A load resistor may need to be connected by the customer in order to power the LEDs correctly.

Luminosity and wave length scattering caused by technologies used in the LED manufacturing processes may lead to visual differences in our products..



ELECTRICAL CHARACTERISTICS

Operating voltage/-current

- Nominal 5 V, 5 mA
- Maximum voltage 24 V
- Minimum voltage 0.5 V
- Minimum current 0.1 mA

Illumination

Current consumption for single LED:

- 20 mA at 2.1 V (yellow and green)
- 20 mA at 1.9 V (red)
- 10 mA at 3.4 V (blue)

Isolation resistance $\geq 1000 \text{ M}\Omega$ at 100 VDC

Contact resistance $\leq 200 \Omega$

Electrical life 4 Million cycles of operation per key

Electrostatic breakdown value 5 kV

Electric strength 1500 V_{rms}, 50 Hz, 1 min., as per EN IEC 60512-2

MECHANICAL CHARACTERISTICS

Actuating force 1 N ... 3 N

Actuating travel 1.5 mm ± 0.3 mm

Rebound time ≤ 40 ms

ENVIRONMENTAL CONDITIONS

Storage temperature -30 °C ... +85 °C

Operating temperature -25°C ... +85°C

Front protection IP 67 as per IEC 60529, when mounted

Climate resistance as per EN IEC 60512-

- Damp heat 21 days
- Dry heat 10 days, +85 °C
- Saline mist 96 hours

Impact resistance IK10 (20 J)

MATERIAL

Keys

Zamak 5 with chrome finish

Housing

Zamak 5 with chrome finish

Back plate Steel chromated

Contacts

- Carbon pills
- Carbon on Cu tracks

APPROVALS

Declaration of conformity

- CE
- RoHS

EOZ S.A.S – 5, rue Henri François – F-77330 OZOIR-LA-FERRIERE

Téléphone : +33 1 81 14 49 49 – Télécopie : +33 1 81 14 49 52

Capital 200 000 € - SIRET 529 137 531 00016 RCS Melun

APE-NAF 2733Z – TVA FR39529137531

www.eozonline.com

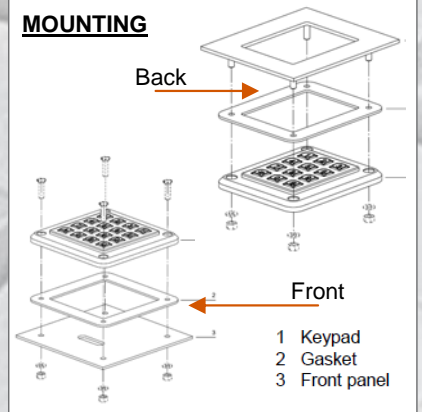
S.series Keypads

STANDARD PART NUMBERS

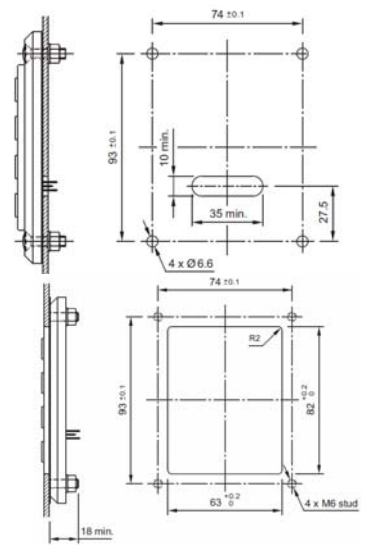
	Numbers of the keys	Marking	Illumination	Circuit	Référence
Keypad No-removable metal keys, Vandal resistant	16	Hexadecimal	Blues	P	S.16300.211
				M	S.16350.211
		Yellow	P	S.16300.241	
			M	S.16350.241	
	Hexadecimal Black	Without	P	S.16300.001	
			M	S.16350.001	
		Telephone	Blues	P	S.12100.211
				M	S.12150.211
Yellow	Without	P	S.12100.001		
		M	S.12150.001		

Circuit P = Common Point, M = Matrix

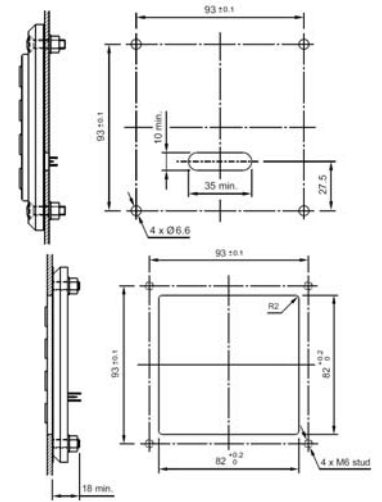
MOUNTING



MOUNTING DIMENSIONS for 12 keys

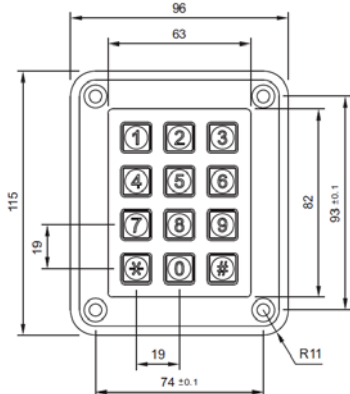


MOUNTING DIMENSIONS for 16 keys

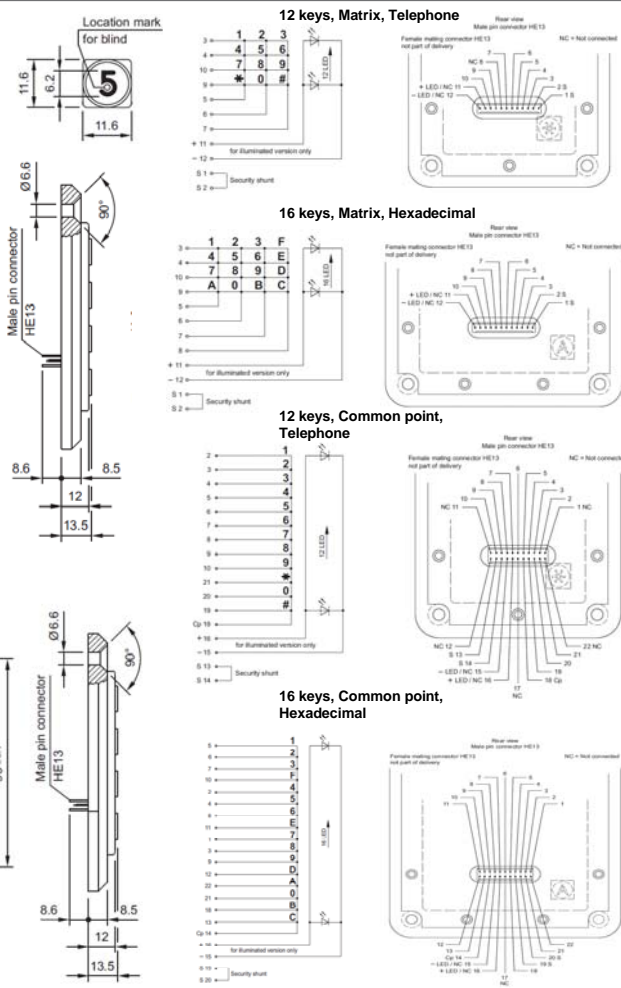
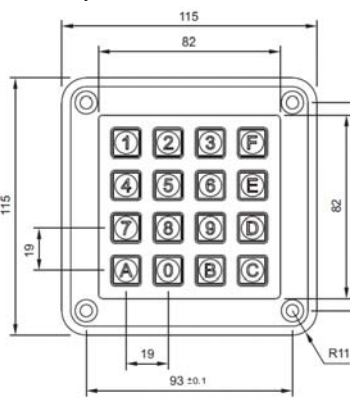


DIMENSIONS

12 keys



16 keys



Contact us at :

Email : contact@eozonline.com

site: www.eozonline.com