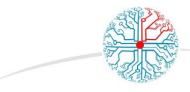




TYPE EDM PUSH-BUTTONS





TYPE EDM PUSH BUTTONS



Robust

Long life durability:

- A reliability recognized for more than 30 years
- Qualified according to nuclear standards IEEE 323 & 344
- A foolproof mechanical and electrical robustness
- Applications in harsh environments

Configurable

Adaptable to your applications:

- Available functions:
 - Momentary action button
 - Alternate action button
 - Indicator light
- Up to 4 stages equipped with 2 change-over contacts or 4 stages configurable at your request
- Illuminated, recessed, recessed protected push buttons...

APPLICATION

> Electrical equipment's control.

- These push-buttons have a particularly strong design which allows them very numerous applications in severe environments (shocks, vibrations, temperature, radiations, earthquakes).
- This range of product is a reference for more than 30 years in control room of nuclear power plants worldwide. It also equips very numerous electrical distribution plants and railways electrical dispatch.
- This range allows to realize all your functions of control push-buttons.



Presentation / Special assembly / Tab color / Escutcheon plate / Signaling and lamps / Function / Contacts scheme / Accessories //

<u>Eg</u>: EDML / - / 81 / - / L / 501 / 2000 / ST //

Presentation

EDME	Non-illuminated recessed push button Ø15
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(Drilling Ø22,5); 110V contacts

EDM2E Non-illuminated recessed push button Ø15

(Drilling Ø22,5); 220V contacts

EDMEP Non-illuminated recessed, protected push button Ø15

(Drilling Ø22,5); 110V contacts

EDM2EP Non-illuminated recessed, protected push button Ø15

(Drilling Ø22,5); 220V contacts

EDML Illuminated projected push button Ø24

(Drilling Ø22,5); 110V contacts

EDM2L Illuminated projected push button Ø24

(Drilling Ø22,5); 220V contacts

EDMLE Illuminated recessed push button Ø24

(Drilling Ø22,5); 110V contacts

EDM2LE Illuminated recessed push button Ø24 encastré

(Drilling Ø22,5); 220V contacts

EDMLEP Illuminated recessed, protected push button Ø15

(Drilling Ø22,5); 110V contacts

EDM2LEP Illuminated recessed, protected push button Ø15

(Drilling Ø22,5); 220V contacts

EDME



EDMEP



EDML



EDMLE



EDMLEP



110V Contacts



220V contacts (1T+1R)



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Special assembly

C24	Product equipped with a special front part which allow to install it on a mosaic panel □24.(EDML only)
C25	Product equipped with a special front part which allow to install it on our MAFELEC C25 mosaic panel □25.(EDML only)
ESN	Black central nut (in replacement of the standard chromed central nut)
SPE	Other special assembly or special realization at request

Tab color

	I	I	I	81
EDML, EDMLE, EDMLEP	EDME	EDMEP	Color	ASSOCIATION OF THE STATE OF THE
81	90	98	White tab	A A
85	91	95	Black tab	91
84	94	99	Yellow tab	83
83	93	97	Green tab	
82	92	96	Red tab	92



Presentation / Special assembly / Tab color / Escutcheon plate / Signaling and lamps / Function / Contacts scheme / Accessories //

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Escutcheon plate

05	Square chromed escutcheon (for engraving) : □36 for EDME and EDML	06G
06	Round chromed escutcheon (for engraving): Ø36 for EDME and EDML	26
26	Round black escutcheon (for engraving): Ø36 for EDME and EDML	
62	Chromed protective plate (engravable) Ø34 for EDMEP	626
72	Black protective plate (engravable) Ø34 for EDMEP	720
G	« G » in complement of PCC or PRC indicate that product is engraved	O

Signaling and lamps

L

48V

or LED48V Engraving at your request

Non-illuminated product or non-equipped with a lamp socket

Product equipped with an T5,5 socket for 1 lamp (Included in standard)

The voltage indicated in complement of socket type mean that the product will be supplied with a filament lamp working in this nominal voltage. The indication LED before the voltage mean that the product will be supplied with a white LED lamp working in this nominal voltage.

(products can be equipped with filaments lamps, white or colored LED lamps, for most common AC/DC nominal voltage)



Presentation / Special assembly / Tab color / Escutcheon plate / Signaling and lamps / Function / Contacts scheme / Accessories //

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Function

Single impulse : momentary actionPush-Push : alternate actionIndicator light

Contact scheme

110V Contacts stages:

A push button can be equipped from 1 to 4 stages (2 to 8 change-over contacts). Standard contacts are in silver. For low current application the contacts can be in an gold-silver alloy: option Z in the accessories codification.

2000	1 stage of two 110 V change-over contacts	2000
2200	2 stages of four 110 V change-over contacts	O TE R
2220	3 stages of six 110 V change-over contacts	
2222	4 stages of eight 110 V change-over contacts	T 8 1 0

220V Contacts stages (3 types of stages available):

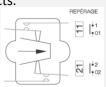
A push button can be equipped from 1 to 4 stages (beyond, consult us). 220V contacts are available in silver only.

Stage 2R: Consisting of 2 Normally



Stage 2T : Consisting of 2 Normally Open

Consisting of 2 Normally Oper contacts.



Stage 1TR:

Consisting of 1 Normally Open contact + 1 Normally Close contacts



To define a 220V contacts configuration, you must combine the different types of stages.

Example 1: 2R+2T = 2 stages push button, 1st stage 2R et 2nd stage 2T

Example 2: 1TR+2R+2T = 2 stages push button, 1st stage 1TR, 2nd stage 2R, 3rd stage 2T

Presentation / Special assembly / Tab color / Escutcheon plate / Signaling and lamps / Function / Contacts scheme / Accessories //

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Accessories

Z	Use of contacts in alloy Gold-Silver in replacement of contacts in alloy Silver/Nickel (Recommended for low current level applications)	
ST	Plastic cable support for rear cable outlet (included in standard)	
STM	Metallic cable support for rear cable outlet	1
SR	Resistance support (useful when you need to reduce the supply voltage of the lamp)	
СР	Plastic translucent contacts cover (IP20)	



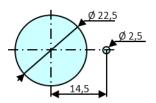
Dimensions

Drillings

EDME-EDML-EDMLE push buttons

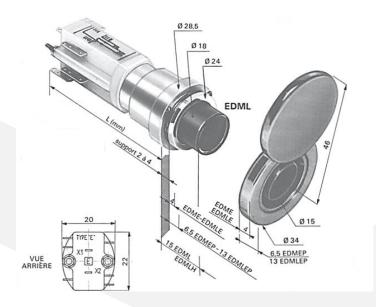
Ø 22,5

EDMEP-EDMLEP push buttons



Refer to installation guide for type E push-buttons for installation and maintenance.

Rear length



			L			
Function	1 stage	2 stages	3 stages	4 stages	ST	SR
501 Single impulse	77	108	139	170	.24	.20
502 Push-Push	97	128	159	190	+24	+28

Electrical, mechanical, environmental characteristics

Electrical characteristics

Rated thermal current (Ith)

Dielectric strength

4A

2000V-50Hz-

1min

Rated alternate current (Ie) (AC)

nated alternate current (ie) (AC)									
Standard silver contacts	110 V co		contacts		220 V c		contacts	contacts	
Rated working voltages (V)	<= 60		110 127		<= 60			110 127	
AC-11 (A)		4	3		4		3		
AC-21 (A)		4	4		4		4		
AC-22 (A)		4	4		4		4		
AC-23 (A)	4		4		4			4	
Rated direct current (Ie) (DC)									
Standard silver contacts	110 V contacts				220 V	contacts			
Rated working voltages (V)	24	48	60	110 127	24	48	60	110 127	
DC-11 (A)	2,5	0,8	0,6	0,2	3,2	1,2	0,8	0,2	
DC-21 (A)	4	2,5	1,8	0,5	4	4	2,5	0,65	
DC-22 (A)	3	1	0,7	0,2	4	1,5	1	0,25	
DC-23 (A)	2	0,75	0,5	0,15	3	1	0,75	0,2	

Minimum utilization characteristics

Maximum connection (Cu only)

Standard silver contacts

Special Gold/Silver contacts

Rigid or flexible cable

By soldering

Fast-On Clips: 2,8 X0,3

5V-50mA

1V-10mA

 $2~\mathrm{X}~1~\mathrm{mm^2}$ max

1 mm²



Electrical, mechanical, environmental characteristics

Mechanical a	nd environmental
characteristics	

Mechanical strength	500 000 cycles of semi-intensive operation
Fitting	By central nut on a 2 to 4 mm panel thick The device does not have to support the weight of the cables
Terminals protection level	IP00 (without cover) – IP2X (with cover)