

















The new Cortem M-O series control, monitoring and signalling devices are installed as external accessories on 'Ex e' enclosures and boards used in any industrial environment where an explosive atmosphere may be present, classified as Zone 1, 2, 21, 22. M-0 control devices can be used to close or open electrical or mechanical devices fitted inside the 'Ex e' enclosures while the signalling devices feature lights to indicate their operating status. The control and signalling device components are made from stainless steel to deliver unbeatable efficiency under any environmental conditions. Levers are made from aluminium while the plastic parts on push-buttons are designed to provide lengthy service life even when used in a highly corrosive atmosphere. M-O control and signalling devices have an IP66 protection rating.

**Application sectors:** 

















Oil refineries Chemical and petrochemical plants

**Onshore** plants

Offshore

plants temperatures

Fuel depots

Ships and shipbuilding

100% Cortem product

### CERTIFICATION DATA FOR CONTROL DEVICES M-0603, M-0604 and M-0605

Classification: Group II Category 2GD Installation: EN 60079.14 zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust) Marking: C€ 0722 ऒ II 2GD Ex e IIC Gb; Ex tb IIIC Db IP66 Certification: **ATEX CESI 09 ATEX 075U IEC Ex** CES 11.0029U All IEC Ex, TR CU and INMETRO certification data can be downloaded from www.cortemgroup.com **INMETRO DNV 17.0138U** TR CU **AVAILABLE** Standards:

CENELEC EN 60079-0: 2012, EN 60079-7: 2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE

IEC 60079-0: 2007-10, IEC 60079-1: 2008, IEC 60079-7: 2006-07

(control and signalling devices are installed together with other certified products) Operating temperature: -40°C +90°C

Degree of protection: **IP66** 

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### CERTIFICATION DATA FOR CONTACT BLOCK M-0530 and M-0531

2014/34/UE

Classification:	Group II Category 2GD
Installation: EN 60079.14	zone 1 - zone 2 (Gas)
Marking:	C€ 0722 € II 2G Ex de IIC Gb
Certification:	ATEX CESI 09 ATEX 016U
	IEC Ex CES 11.0031U  All IEC Ex certification data can be downloaded from www.cortemgroup.com
	TR CU AVAILABLE  All TR CU certification data can be downloaded from www.cortemgroup.com
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007 and EUROPEAN DIRECTIVE

IEC 60079-0: 2007-10, IEC 60079-1: 2007-04, IEC 60079-7: 2006-07

### **INDICATOR LIGHT M-0612/3**

Classification:	Group II	Category 2GD
Installation: EN 60079.14	zone 1 - zone 2 (Gas) zone 2	21 - zone 22 (Dust)
Marking:	C€ 0722 ऒ II 2G Ex db eb IIC Gb;	Ex th IIIC Dh IP66
Certification:	ATEX CESI 00 ATEX 060U	
	IEC Ex CES 11.0030U	All IEC Ex certification data can be downloaded from www.cortemgroup.com
	TR CU AVAILABLE	All TR CU certification data can be downloaded from www.cortemgroup.com
Standards:	CENELEC EN 60079-0: 2012+A11:2013, EN and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011, IEC 60079-1: 2014-06,	I 60079-1: 2014, EN 60079-7: 2015, EN 60079-31: 2014 IEC 60079-31: 2013, IEC 60079-7: 2015

IP66

IP66

### AMMETER B-0140A, VOLTMETER B-0140V

Degree of protection:

Degree of protection:

Classification:	Group II	Category 2GD	
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)	
Marking:	<b>C€</b> 0722 <b>ⓒ II 2G Ex e IIC C</b>	Gb; II 2D Ex tb IIIC Db IP66	
Certification:	ATEX CESI 04 ATEX 12	28U	
	IEC Ex CES 12.0022U	All IEC Ex certification data can be downloaded from www.cortemgroup.com	
	TR CU AVAILABLE	All TR CU certification data can be downloaded from www.cortemgroup.com	
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011, IEC 60079-31: 2008, IEC 60079-7: 2006-07		

### **MECHANICAL FEATURES**

**Body:** Aluminium with black anodic oxide finish.

Pin and spring: Stainless steel

Gasket: Acid-, hydrocarbon- and high temperature-resistant silicone, located between

body and lid.

Coloured cap on push-button and emergency stop push-button: Polyamide 6

Selector lever: Aluminium with black anodic oxide finish

Bolts and screws: Stainless steel

Control devices can be used to close or open various electrical or mechanical devices fitted inside the enclosures. Relevant technical features are given in detail below.

Push-button **M-0603** features linear push operation.

Push



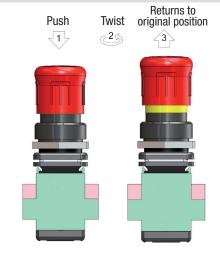
Selector **M-0604** features twist operation.

Twist



Emergency stop push-button **M-0605** features linear push-to-close operation.

To release, twist clockwise and the button automatically returns to its original position.



Emergency stop push-button **M-0605/K** features linear push-to-close operation.

To release, turn the key clockwise and the button automatically returns to its original position.

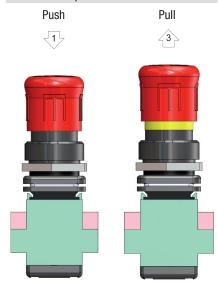
Push key original position

23

3

Original position

Emergency stop push-button **M-0605/P** features linear push-to-close operation. Pull the push-button to release.



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### **CONTACT FEATURES**

Rated voltage: 690 V
Frequency: 50/60 Hz
Capacity: 10 A

				. •					
Rated operating voltage									
400 V	400 V 500 V 690 V 400 V 400 V 400 V 48 V 230 V								
Utilizatio	on catego	ry							
AC-15	AC-15	AC-15	AC-1	AC-2	AC-3	DC-13	DC-13		
Rated operating currents									
10 A	4 A	2 A	16 A	6 A	2,4 A	10 A	0,5 A		

**Connection:** max. 2.5 mm<sup>2</sup>

Rated impulse

withstand voltage: 4 kV Pollution degree: 2

Conditional

short-circuit current: 1kA

Maximumuse of

**short-circuit protection devices:** one 10A 500V gG fuse on each conductor

Minimum travel for positive opening: 3 mm

Minimum actuation force required to

achieve positive opening

of all opening contacts: 5 N

Maximum travel (+ overtravel): 4.75 Hz

Body: Polyamide

Contacts: Brass

Pins, springs and screws: Stainless steel

Weight: 40 g



The new slot-in adapter system makes light work of fitting contacts in control panels with walls up to 7 mm thick. In addition, with the mushroom-head push-button having a smaller diameter thread (M32x1.5), the lid can accommodate a larger number of control and signalling devices than with the previous version.



Option of using up to 4 contacts per device for push-button M-0603 and selector M-0604. Option of using up to 2 contacts per device for emergency stop push-button M-0605.

### **ACCESSORIES AVAILABLE ON REQUEST/ SPECIAL REQUESTS**

Padlocking system for selector (codes M-962 and M-963)

Padlocking system for push-button (code M-0603/..L)

Padlocking for mushroom-head push-button (code M-0615)

Black mushroom-head push-button (code M-0605/N)

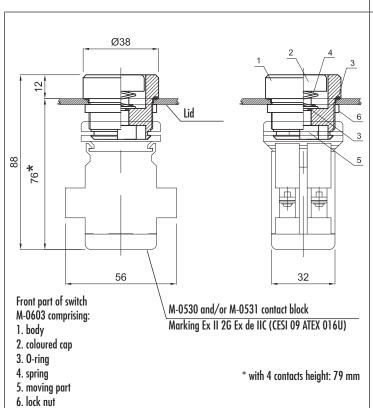
Earthing ring for installing control and signalling devices on polyester lids (code A331IB)

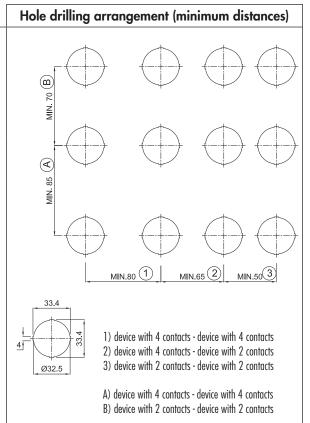
### **Push-button M-0603**



Range of push-buttons designed to allow installation of a high number of lid-mounted control and signalling devices. Available with caps made from polyamide 6 in different colours and in padlockable version. Option, for all control and signalling devices, of attaching nameplates on the lid with size and wording produced to customer specifications.

CODE	DESCRIPTION	NOTES
M-0603/N	Black Ex e push-button without contacts	Add the required contact assembly
M-0603/NL	Padlockable black Ex e push-button without contacts	Add the required contact assembly
M-0603/R	Red Ex e push-button without contacts	Add the required contact assembly
M-0603/RL	Padlockable red Ex e push-button without contacts  Add the required contact assemble red Ex e push-button without contacts	
M-0603/V	Green Ex e push-button without contacts	Add the required contact assembly
M-0603/G Yellow Ex e push-button without contacts		Add the required contact assembly
M-0603/B Blue Ex e push-button without contacts		Add the required contact assembly
M-0603/BI	White Ex e push-button without contacts	Add the required contact assembly
M-0606/10	1NO contact assembly	
M-0606/01	1NC contact assembly	
M-0606/11	1NO+1NC contact assembly	
M-0606/20	2NO contact assembly	
M-0606/02	2NC contact assembly	





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### Selector M-0604



CODE	DESCRIPTION	NOTES	
M-0604/X	Ex e selector X arrangement	Selector complete with contacts	
M-0604/R	Ex e selector R arrangement	Selector complete with contacts	
M-0604/RSX	Ex e selector R left-hand arrangement	Selector complete with contacts	
M-0604/1Z	Ex e selector 1Z arrangement	Selector complete with contacts	
M-0604/2Z	Ex e selector 2Z arrangement Selector complete with contacts		
M-0604/11	Ex e selector 11 arrangement	Selector complete with contacts	
M-0604/2I	Ex e selector 2l arrangement	Selector complete with contacts	
M-0604/3I	Ex e selector 31 arrangement	Selector complete with contacts	
M-0604/4I	Ex e selector 4l arrangement	Selector complete with contacts	
M-0604/1C Ex e selector 1C arrangement		Selector complete with contacts	
M-0604/2C	Ex e selector 2C arrangement	Selector complete with contacts	
M-0604/1W	Ex e selector 1W arrangement	Selector complete with contacts	
M-0604/2W	Ex e selector 2W arrangement	Selector complete with contacts	
M-0604/1M	Ex e selector 1M arrangement	Selector complete with contacts	
M-0606/11 1NO+1NC contact assembly		Replacement part for arrangements: X - R - 1Z - RSX	
M-0606/22	2NO+2NC contact assembly	Replacement part for arrangements: 2Z	
M-0606/10	1NO contact assembly	Replacement part for arrangements: 11 - 1M	
M-0606/20 2NO contact assembly		Replacement part for arrangements: 2I - 2M - 1C - 1W	
M-0606/30	3NO contact assembly	Replacement part for arrangements: 31 - 3M	
M-0606/40 ANO contact assembly		Replacement part for arrangements: 4I - 4M - 2C - 2W	

Selector complete with 2 or 4 contacts, available with different wiring arrangements for connections inside board or on machine. Option of padlocking and earthing.

# Front part of switch M-0604 comprising: 1. body 2. lever 3. O-ring 4. moving part 5. lock nut

# Hole drilling arrangement (minimum distances) MIN.80 1 MIN.65 2 MIN.50 3 1) device with 4 contacts - device with 4 contacts 2) device with 4 contacts - device with 2 contacts A) device with 4 contacts - device with 2 contacts B) device with 2 contacts

### **Emergency stop push-button M-0605**



The emergency stop push-button allows operators to stop machinery safely by pushing the button.

Model M-0605/K comes with 2 keys, allowing you to lock the push-button in place.

4. moving part

5. lock nut

CODE	DESCRIPTION	NOTES		
M-0605	Ex e emergency stop push-button with release without contacts	You will need to add required contact assembly		
M-0605/K	Ex e emergency stop push-button with key release without contacts	You will need to add required contact assembly		
M-0605/P	Ex e push-pull, stop push-button without contacts	You will need to add required contact assembly		
M-0606/10	1NO contact assembly			
M-0606/01	M-0606/01 NC contact assembly			
M-0606/11	1NO+1NC contact assembly			
M-0606/20	2NO contact assembly			
M-0606/02	2NC contact assembly			

# Ø40 Available with model M-0605/K 57 Ø38 Lid 3 56 32 Front part of push-button M-0530 and/or M-0531 contact block M-0605 comprising: Marking Ex II 2G Ex de IIC (CESI 09 ATEX 016U) 1. body 2. mushroom-head push-button 3. 0-ring

# Hole drilling arrangement (minimum distances) | MIN.80 | MIN.85 | MIN.50 |

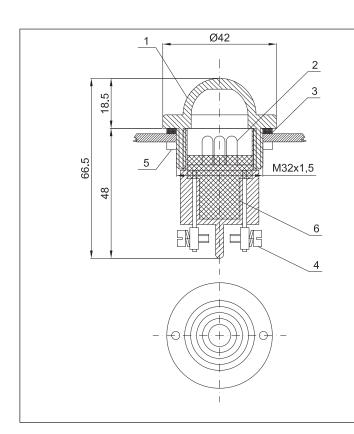
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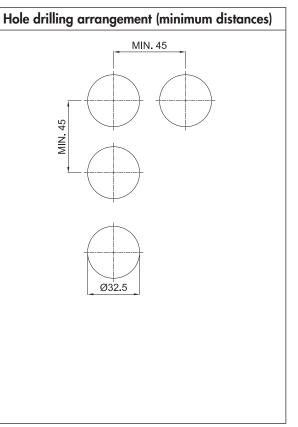
### Multi-LED indicator M-0612/3



CODE	DESCRIPTION	NOTES
M-0612/3B110	Blue multi-LED indicator 110Vac/dc	
M-0612/3B12	Blue multi-LED indicator 12Vac/dc	
M-0612/3B230	Blue multi-LED indicator 230Vac	
M-0612/3B24	Blue multi-LED indicator 24Vac/dc	
M-0612/3G110	Yellow multi-LED indicator 110Vac/dc	
M-0612/3G12	Yellow multi-LED indicator 12Vac/dc	
M-0612/3G230	Yellow multi-LED indicator 230Vac	
M-0612/3G24	Yellow multi-LED indicator 24Vac/dc	
M-0612/31110	Colourless multi-LED indicator 110Vac/dc	
M-0612/3112	Colourless multi-LED indicator 12Vac/dc	
M-0612/31230	Colourless multi-LED indicator 230Vac	
M-0612/3124	Colourless multi-LED indicator 24Vac/dc	
M-0612/3R110	Red multi-LED indicator 110Vac/dc	
M-0612/3R12	Red multi-LED indicator 12Vac/dc	
M-0612/3R230	Red multi-LED indicator 230Vac	
M-0612/3R24	Red multi-LED indicator 24Vac/dc	
M-0612/3V110	Green multi-LED indicator 110Vac/dc	
M-0612/3V12	Green multi-LED indicator 12Vac/dc	
M-0612/3V230	Green multi-LED indicator 230Vac	
M-0612/3V24	Green multi-LED indicator 24Vac/dc	

Multi-LED indicators come with lenses in different colours and different voltage options. Easy to install and wire, offering lasting reliability with a LED service life of 50,000 hours.





### Ammeter B-0140A, voltmeter B-0140V

CODE	DESCRIPTION	NOTES
B-0140A	Ammeter	*
B-0140V	Voltmeter	

Maximum voltage: 600 V Rated frequency: 40 / 60 Hz Accuracy class: 1.5

Measuring range - Direct measurement:

Power dissipation: 1.1 VA (B-0140A) 3.0 VA (B-0140V)

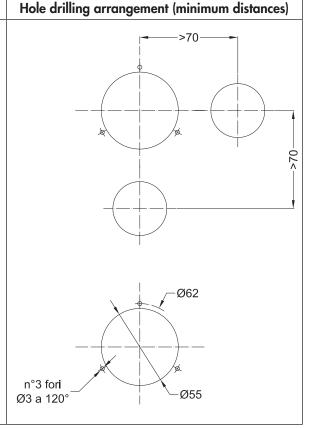
Measoring range Bireci measorement.	0 40 111/1	0 0.1 7
	0 - 60 mA	0 - 1.5 A
	0 - 100 mA	0 - 2.5 A
	0 - 250 mA	0 - 5 A
	0 - 400 mA	0 - 6 A
	0 - 600 mA	0 - 15 A
Measuring range - With current transformer:	0 - 2.5 mA	0 - 50 A
	0 - 5 mA	0 - 60 A
	0 - 10 mA	0 - 75 A
	0 - 15 mA	0 - 100 A
	0 - 20 mA	0 - 150 A
	0 - 25 mA	0 - 200 A
	0 - 30 mA	0 - 300 A
	0 - 40 mA	0 - 400 A

0 - 40 mA

0 - 0.1 A

The Cortem certified ammeter and voltmeter are suitable for measuring electrical values when the situation demands the utmost accuracy. The internal faces featuring the measuring range scale are produced to the customer's specifications.

# Ammeter/voltmeter M-0140 comprising: 1. body 2. internal equipment 3. gasket 4. connection contact with screw 5. 2-component resin



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<sup>\*</sup> For the ammeter mod. B-0140A4 (4-20mA), the impedance is  $1200 \Omega$ . In the case that the driver was not compatible with this impedance, we strongly recommend to use the transducer provided by Cortem mod. NI-DT1.

### TABLE ILLUSTRATING MAIN WIRING ARRANGEMENTS

Push-button w/ NC conta	Push-button w/ NO contact	Mushroom-head push-button with NC twist release
Code	Selector	
	В	

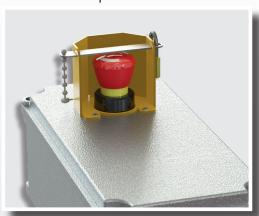
Selector   Selector			C 1 .	,			
RSX 3-position control with spring return to B from both A and C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and C  RSX 3-position control with spring return from both A and C  RSX 3-position control with spring return from both A and C  RSX 3-position control with spring return from both A and C  RSX 3-position control with spring return from both A and C  RSX 3-position control with spring return from both A and C	Code		Selector				
R 3-position control with spring return to B from both A and C			B C A			1	2
R  3-position control with spring return from both A and B and maintained C  3-position control with spring return from both A and B and maintained C  3-position control with spring return from both A and B and maintained C  2-position control maintained  C  3-position control with spring return to B from both A and C  C  A  C  B  A  C  A  C  C  A  C  C  A  C  C  A  C  A  C  C	v	3-position control with spring		1 2	А	CLOSED	CLOSED
R 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  T 2 -position control maintained  T 3-position control with spring return to B from both A and C  T 3-position control with spring return  T 3-position control with spring return to B from both A and C  T 3-position control with spring return  T 1 2 A CLOSED CLOSED  T 1 2 A CLOSED CLOSED  T 1 2 A CLOSED CLOSED  T 1 2 A CLOSED OPEN  T 2 A CLOSED OPEN  T 3-position control maintained  T 3-position control maintained  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 1 2 A CLOSED  T 2 A CLOSED  T 3-position control with spring return  T 3-position control with spring return	^	return to B from both A and C	\ \^	<del></del>	В	CLOSED	OPEN
R 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  RSX 3-position control with spring return from both A and B and maintained C  T 2 1 2 A CLOSED OPEN CLOSED B CLOSED OPEN CLOSED B CLOSED OPEN CLOSED B CLOSED OPEN CLOSED B CLOSED OPEN B CLOSED OPEN B CLOSED OPEN B CLOSED OPEN CLOSED  C 3-position control maintained  T 3-position control maintained  C 3-position control maintained  C 3-position control with spring return to B from both A and C A CLOSED OPEN CLOSED  M Control with spring return  A CLOSED OPEN CLOSED					С	OPEN	OPEN
R 3-position control with spring return from both A and B and maintained C  3-position control with spring return from both A and B and maintained C  2 A CLOSED OPEN C OPEN OPEN  A CLOSED CLOSED OPEN C OPEN OPEN  A CLOSED CLOSED OPEN C OPEN OPEN  C OPEN OPEN  C OPEN OPEN  C OPEN OPEN  C OPEN OPEN  C OPEN OPEN  C OPEN OPEN  C OPEN CLOSED  B OPEN OPEN  C OPEN OPEN						1	2
RSX		3-position control with spring	A	1 2	А		
RSX  3-position control with spring return from both A and B and maintained C  2-position control maintained  C 3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED  C OPEN OPEN  B CLOSED  A CLOSED  A CLOSED OPEN  C OPEN CLOSED  M Control with spring return  A CLOSED  A CLOSED  A CLOSED  A CLOSED  A CLOSED  C OPEN CLOSED  M Control with spring return	R			<u> </u>			
RSX  3-position control with spring return from both A and B and maintained C  2-position control maintained  C  3-position control with spring return to B from both A and C  A  C  A  CLOSED		maintained C			С	OPEN	OPEN
RSX  3-position control with spring return from both A and B and maintained C  2-position control maintained  C  3-position control with spring return control with spring return to B from both A and C  A  C  A  CLOSED						· · · · · · · · · · · · · · · · · · ·	
return from both A and B and maintained C  2-position control maintained  C  3-position control with spring return control with spring return to B from both A and C  C  C  C  C  C  C  C  C  C  C  C  C		3-position control with spring		1 2		1	2
Tontrol switch  Copen Open Closed  Copen Copen Closed	RSX	return from both A and B and					
Z 2-position control maintained  B A 1 2 1 2 A OPEN CLOSED B CLOSED OPEN B CLOSED  C 3-position control maintained  C 3-position control maintained  C 3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED	11071		C -				
Z 2-position control maintained  C 3-position control maintained  C 3-position control maintained  C 3-position control with spring return to B from both A and C  C 3-position control with spring return					С	OPEN	OPEN
Z 2-position control maintained    A OPEN CLOSED   B CLOSED OPEN			в А	1 2		1	2
Control switch  B CLOSED OPEN  B CLOSED OPEN  B CLOSED OPEN  C A OPEN  B CLOSED OPEN  C OPEN CLOSED  W 3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED OPEN  C OPEN CLOSED	7	2-position control maintained			Δ		
C 3-position control maintained  C 3-position control with spring return to B from both A and C  C B A 1 2 A CLOSED  C B A 1 2 A CLOSED OPEN B OPEN CLOSED  C OPEN CLOSED  A CLOSED OPEN B OPEN CLOSED  C OPEN CLOSED  A CLOSED OPEN B OPEN OPEN CLOSED			\( \( \section \)				
C 3-position control maintained  C B A 1 2 A CLOSED OPEN B OPEN OPEN CLOSED  W 3-position control with spring return to B from both A and C  M Control with spring return							
C 3-position control maintained  C B A 1 2 A CLOSED OPEN B OPEN OPEN C OPEN CLOSED  M Control with spring return to B from both A and C  C B A 1 2 A CLOSED OPEN C OPEN CLOSED  A CLOSED OPEN C OPEN CLOSED  A CLOSED OPEN C OPEN CLOSED			В А	1		1	
C 3-position control maintained  C B A 1 2 A CLOSED OPEN B OPEN OPEN C OPEN CLOSED  M Control with spring return to B from both A and C  A CLOSED OPEN B OPEN OPEN C OPEN CLOSED  A CLOSED OPEN C OPEN CLOSED	_				А		
C 3-position control maintained  C A 1 2 A CLOSED OPEN B OPEN OPEN CLOSED  W 3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED	I	Control switch	<u> </u>				
C 3-position control maintained  C A 1 2 A CLOSED OPEN B OPEN OPEN CLOSED  W 3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED OPEN CLOSED							
C 3-position control maintained  3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED OPEN B OPEN OPEN C OPEN CLOSED  A CLOSED OPEN B OPEN OPEN C OPEN CLOSED  A CLOSED OPEN B OPEN OPEN C OPEN CLOSED			В	· ·		1	2
W 3-position control maintained  3-position control with spring return to B from both A and C  M Control with spring return  A CLOSED  B OPEN OPEN CLOSED  A CLOSED  A CLOSED  A CLOSED  A CLOSED				1 2	Δ		
W 3-position control with spring return to B from both A and C  M Control with spring return  C OPEN CLOSED  A CLOSED OPEN CLOSED  A CLOSED  A CLOSED  A CLOSED  A CLOSED	С	3-position control maintained	\A				
W 3-position control with spring return to B from both A and C  M Control with spring return  C A  1 2  A CLOSED OPEN  B OPEN OPEN  C OPEN CLOSED							
W 3-position control with spring return to B from both A and C  M Control with spring return  C A  1 2  A CLOSED OPEN  B OPEN OPEN  C OPEN CLOSED			R			<u> </u>	
return to B from both A and C  B OPEN OPEN CLOSED  A CLOSED  A CLOSED			C A	1 2			
M Control with spring return	W	3-position control with spring					
M Control with spring return  A B 1 1 1 1 A CLOSED		return to B trom both A and C					
M Control with spring return  A CLOSED  A CLOSED			Ш			OPEN	CIOSED
M   Control with spring return   A				1		1	
B OPEN	M	Cantral with a size and		,	А	CLOSED	
		Control with spring return					
							ı

### PROTECTION AND PADLOCKING SYSTEMS FOR CONTROL AND SIGNALLING DEVICES, ACCESSORIES AND SPECIAL VERSIONS

Padlocking system for selector (codes M-962 and M-963)



System protecting against accidental operation for mushroom-head push-buttons. Code M-988

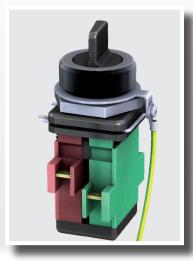


Assembly comprising stainless steel padlocking bar and chain for fastening. M-0615/1

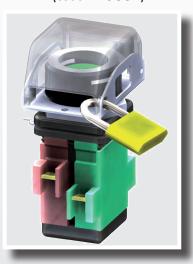
Padlocking system for push-button (code M-0603/..**L**)



Earthing ring for installing control and signalling devices on polyester lids (code **A331IB**)



Padlocking protection (code **M-0631**)



Black mushroom-head push-button (code M-0605/**N**)



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### **EXAMPLES OF APPLICATION**

### SA302318 Cortem aluminium enclosure complete with:



- 1 x ammeter B-0140A
- 1 x red indicator light M-0612/3R230
- 1 x green indicator light M-0612/3V230
- 2 x selectors M-0604/1Z
- 1 x NEV32IB cable gland
- 11 x CBD2 terminals
- 1 x earth terminal TE60
- 1 x internal mounting plate B32-229

Outer coating RAL 7035

### SA473018SS Cortem stainless steel enclosure complete with:



- 1 x ammeter B-0140A
- 1 x emergency stop push-button with key release M-0605/K
- 1 x black padlockable push-button M-0603/NL
- 1 x yellow indicator light M-0612/3G230
- 1 x green indicator light M-0612/3V230
- 2 x selectors M-0604/1C
- 6 x NEV25IB cable glands
- 1 x internal mounting plate B47-357