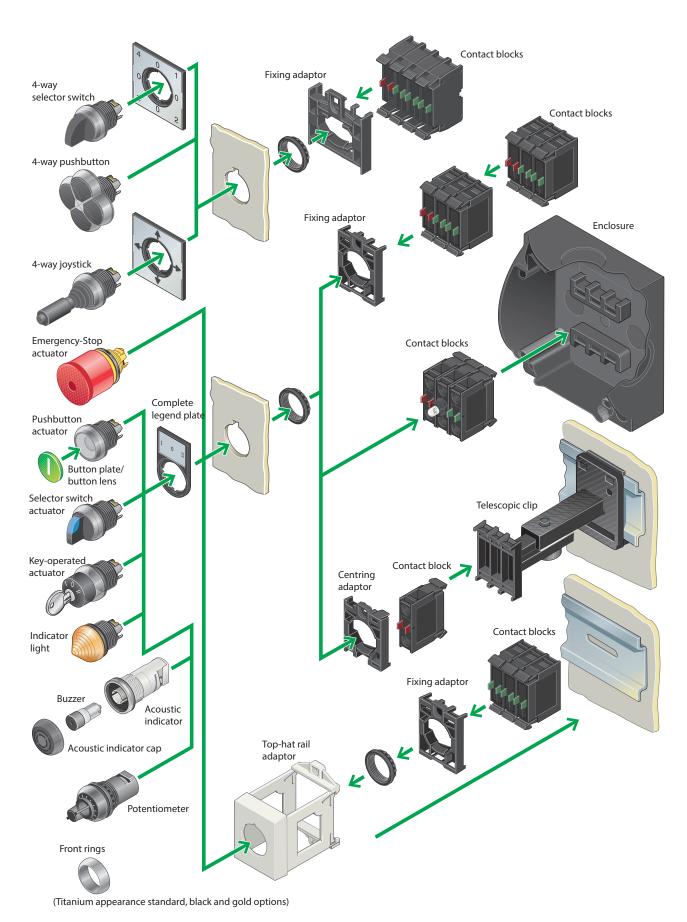




Eaton 22.5 mm pushbuttons

RMQ - Titan, system overview



RMQ - Titan

Competitively priced, Eaton's RMQ-Titan range comprises pushbuttons, selector switches, joysticks, Emergency-Stop & key-operated actuators. The system includes a variety of indicator lights & illuminated pushbuttons in white, red, yellow, blue & green. They are available in two voltage ranges 12 – 30 V AC/DC & 85 – 264 V AC covering all standard applications.





Meeting all relevant international standards, this attractive, co-ordinated product range will add significant value to any machine or system.

Features & benefits:

- Ergonomic design ensuring ease of operation & bright illumination
- IP66 degree of protection as standard (many devices IP67, IP69K) for use in the harshest of industrial environments
- Vibration resistant LEDs giving a minimum life of 100,000 hours for improved reliability & high integrity
- Fitting in the standard 22.5 mm hole, the snap fitting modular system saves both assembly & fitting time

Colour	Description	Contact blocks	LED light unit	Legend plate(s)	Item no.
Pushbut	ton				
•	Flush	1NO/1NC	-	Run, 1	M22-D-S-K11-P
•	Extended	1NO/1NC	-	Stop, off	M22-DH-R-K11-P
•	Flush	1NO/1NC	-	Start, on	M22-D-G-K11-P
Illuminat	ted pushbutton				
•	Extended	1NO/1NC	12-30V AC/DC	Stop, off	M22-DLH-R-K11-R-P
•	Extended	1NO/1NC	85-264VAC	Stop, off	M22-DLH-R-K11-230R-P
0	Flush	1NO/1NC	12-30V AC/DC	Run, 1	M22-DRL-W-K11-W-P
0	Flush	1NO/1NC	85-264VAC	Run, 1	M22-DRL-W-K11-230W-P
Indicatin	ıg light				
•	-	-	12-30V AC/DC	Stop, off, fault	M22-L-R-R-P
•	-	-	12-30V AC/DC	Start, on, run	M22-L-G-G-P
•	-	-	85-264VAC	Stop, off, fault	M22-L-R-230R-P
•	-	-	85-264VAC	Start, on, run	M22-L-G-230G-P
Emerge	ncy stop				
•	Non-illuminated twist-to-release	1NO/2NC	-	Emergency stop	M22-PVT-K12-P
•	Illuminated push-pull	1NO/2NC	12-30V AC/DC	Emergency stop	M22-PVL-K12-R-P
•	Illuminated push-pull	1NO/2NC	85-264VAC	Emergency stop	M22-PVL-K12-230R-P
Selector	switch		<u> </u>		
•	2 Position momentary	1NO/1NC	-	0 I, man auto	M22-WKV-K11-P
•	3 Position momentary	1NO/1NC	-	I 0 II, hand 0 auto	M22-WK3-K22-P







M22-PVL-K12-R-P

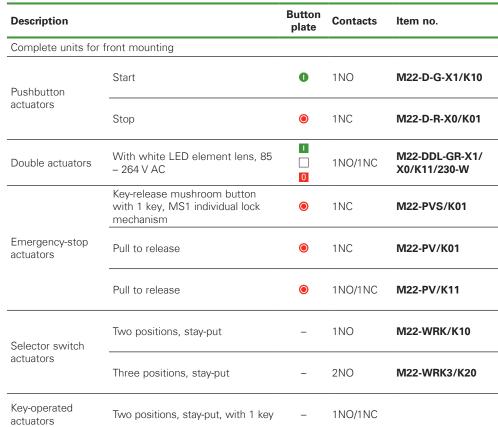
Eaton 22.5 mm pushbuttons



M22-D-G-X1/K10

RMQ - Titan

Complete units





M22-PV/K01



M22-WRK/K10





M22-D-G-X1/KC11/I



M22-PV/KC11/IY



M22-WRS/KC11/I



M22-I2-M1



M22-I3-M1

Enclosed units				
Description		Button plate	Contacts	Item no.
Enclosed units for so	urface mounting			
Pushbutton	Start	0	1NO/1NC	M22-D-G-X1/KC11/
actuators	Stop	•	1NO/1NC	M22-D-R-X0/KC11/I
Emergency-stop actuator	Pull to release, yellow enclosure	-	1NO/1NC	M22-PV/KC11/IY
Emergency- stop key-release mushroom button	Red actuator with 1 key	-	1NO/1NC	M22-PVS/KC11/IY
Key-operated selector switch	2 positions, stay-put, with 1 key	_	1NO/1NC	M22-WRS/KC11/I
Two-way	Without indicator light	-	-	M22-I2-M1
pushbutton stations	With indicator light, white LED element, 85 – 264 V AC	-	-	M22-I3-M2
Three-way pushbutton station	Without indicator light	-	-	M22-I3-M1
Four-way pushbutton station	Without indicator light	-	-	M22-I4-M1

Control and indication Eaton 22.5 mm pushbuttons

RMQ - Titan Pushbutton actuators, IP67

- Front ring titanium, also available in black
- Snap-fitting modular system
- Mounting diameter 22.3 mm
- Minimum grid dimensions 30 x 40 mm
- Up to six contacts per location
- Switching of different potentials
- Worldwide approval







Actuators

Description		Colour of button plate/mushroom head	Item no.	
Flush design				
		•	M22-D-G	
		•	M22-D-R	
		0	M22-D-G-X1	
Flush actuator	Spring-return	©	M22-D-R-X0	
FluSii actuatoi	Spring-return	•	M22-D-S	
		•	M22-D-Y	
		0	M22-D-W	
		•	M22-D-B	
Flush actuator	Spring-return	Without button plate	M22-D-X	
		•	M22-XD-S	
		0	M22-XD-W	
	(M00 D.)	•	M22-XD-R	
button plate	for use with M22-D-X	•	M22-XD-G	
		•	M22-XD-Y	
		•	M22-XD-B	
Extended Design				
		•	M22-DH-S	
Extended actuator	Spring-return	•	M22-DH-R	
extended actuator		•	M22-DH-G	
	Spring-return, with guard ring	Without	M22-DG-X	
Mushroom actuato	rs, IP67			
		•	M22-DP-G	
	Spring roturn	•	M22-DP-R	
	Spring-return	•	M22-DP-S	
		•	M22-DP-Y	
		•	M22-DRP-S	
	Stay-put	•	M22-DRP-R	
		•	M22-DRP-G	
Double actuator, IP	66			
	Stop-start button plate. Optional indicator light M22-LED230-W	I	M22-DDL-GR-X1/X0	



M22-XD-G



M22-DH-R



M22-DP-R



M22-DDL-GR-X1/X0

Eaton 22.5 mm pushbuttons



M22-PV



M22-PVL



M22-PVS



M22-PL-PV



FAK-R/V/KC01/IY



FAK-R/V/KC11/IY

RMQ - Titan **Actuators**

Description	Colour of mushroom head	Item no.
Emergency-stop actuators, IP66. Snap-action & positive non-tease a	ction, yellow b	ase
Pull to release. After actuation, plunger remains in the actuated position.	•	M22-PV
Twist to release. One or two contact blocks can be fitted.	•	M22-PVT
Illuminated. Pull to release. After actuation, plunger remains in the actuated position. One or two contact blocks can be fitted.	•	M22-PVL
Key-operated, with 1 key	•	M22-PVS
Sealable shroud. Transparent with collapse point, reusable after Emergency-stop operation. Suitable for M22-PV & M22-PVL Emergency-stop actuators & M22-PVS key-release mushroom actuator.	-	M22-PL-PV
Foot & palm switches, IP67		
	•	FAK-R/KC11/I
Spring-return mushroom head -	•	FAK-S/KC11/I
Emergency-stop actuators, IP67		
Stay-put, pull to release	•	FAK-R/V/KC01/IY
Stay-put, pull to release	•	FAK-R/V/KC11/IY

Fixing adapters, contact blocks







M22-AK11

Description	Contacts	Item no.
Fixing adapters		'
Front fixing, for 3 M22-K contact elements & M22-LED LED elements.	_	M22-A
For 4 contact blocks	_	M22-A4
Contact blocks with screw terminals		
Facet folian	1 NO	M22-K10
Front fixing	1 NC	M22-K01
D (C)	1 NO	M22-KC10
Base fixing	1 NC	M22-KC01
Complete modules. Combination of contact elements with screw	terminals & fixir	ng adapter
	1 NO, 1 NC	M22-AK11
Front fixing	1 NO	M22-AK10
	1 NC	M22-AK01

RMQ - Titan

LED elements

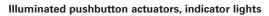
Description	Rated operational voltage, U _e , V	Colour	Item no.
LED elements with screw termin	als		
		0	M22-LED-W
	12 – 30 V AC/DC	•	M22-LED-R
	12 – 30 V AC/DC	•	M22-LED-G
Front fiving			M22-LED-B
Front fixing		0	M22-LED230-W
	85 – 264 V AC,	•	M22-LED230-R
	50/60 Hz	•	M22-LED230-G
			M22-LED230-B
		0	M22-LEDC-W
	12 – 30 V AC/DC		M22-LEDC-R
	12 – 30 V AC/DC	•	M22-LEDC-G
Base fixing			M22-LEDC-B
base lixing		0	M22-LEDC230-W
	85 – 264 V AC,		M22-LEDC230-R
	50/60 Hz	•	M22-LEDC230-G
		•	M22-LEDC230-B
LED test elements			
For non-interacting function test	12 – 240 V AC/DC		M22-XLED-T
(lamp test) for connection to:	85 – 264 V AC	-	M22-XLED230-T







M22-A



Description		Colour	Item No.
Illuminated pushbutton actuators, IP67	'		
		0	M22-DL-W
		•	M22-DL-G
	Spring-return		M22-DL-R
		•	M22-DL-Y
Fluck decise			M22-DL-B
Flush design		0	M22-DRL-W
			M22-DRL-G
	Stay-put, press again to release.	•	M22-DRL-R
	to release.	0	M22-DRL-Y
			M22-DRL-B
		0	M22-DLH-W
			M22-DLH-G
Extended design	Spring-return		M22-DLH-R
		-	M22-DLH-Y
			M22-DLH-B
Indicator lights, IP67			
		0	M22-L-W
			M22-L-G
Flush	-	•	M22-L-R
		0	M22-L-Y
			M22-L-B
		0	M22-LH-W
		•	M22-LH-G
Extended, conical	-	•	M22-LH-R
		•	M22-LH-Y
		•	M22-LH-B



M22-DL-I



M22-DRL-G



M22-DLH-W

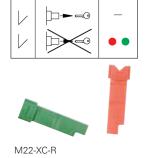


M22-L-R

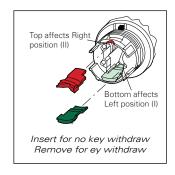


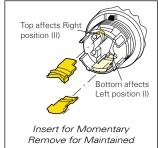
Eaton 22.5 mm Pushbuttons

Eaton 22.5 mm pushbuttons









RMQ - Titan

Set of coding adapters for selector switches

Description	For use with	Colour	Item no.
Used to convert key withdraw position to non-key withdrawn position	M22(S)- WRS(3)	-	M22-XC-R
Supplied with standard switches Used to convert maintained operation to momentary operation	M22(S)- WR(L)(K)(3) M22(S)- WRS(3)	-	M22-XC-Y

The same slots on keyed sector switches are shared between these two difference sets of coding adapters.

All possible combinations and their effects are detailed in the tables below.

Two position adapter configurations

Two position adapter	Switching positions O O O O O O O O O O O O O O O O O O O			
configurations	O I	0 I	01	
Two slot affects right position	-			

Bottom slot not implemented with two position switches

Shading indicates standard switch configuration

Three position adapter configurations

				Switcl	hing pos	sitions			
Three position adapter	I II maintained	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	I III momentary		1 1	1 2 1	
configurations	Key withdraw positions								
	1011	1011	1011	I O II	0	1011	0	I O II	1011
Two slot affects right position	_			-				_	
Bottom slot affects left position	-	-11	-	-		-			

Shading indicates standard switch configuration

RMQ - Titan

Selector switch actuators

Description	Function:		⇒ = Spring- return	Button plate	Front ring: titanium Item no.
Selector switch actuators, 2 positions, IP66					
Data a la città a	_	را دا	40°	9	M22-W
Rotary button	_		60°	©	M22-WR
	-	b	40°	_	M22-WK
Thumb-grip	_	L	60°	-	M22-WRK
Thumb-grip, V position	_	~	60°	-	M22-WKV
Selector switch actuators, 3 positions, IP66					
Datani huttan	40°	₩	40°	&	M22-W3
Rotary button	60°		60°	®	M22-WR3
T	40°	₩	40°	-	M22-WK3
Thumb-grip	60°	\downarrow	60°	-	M22-WRK3
Selector switch actuators, 4 positions, IP66.					
Rotary button	45°	03 10 10 10 10 10 10 10 10 10 10 10 10 10		•	M22-WR4
Thumb-grip	45°	0 3 0 3 0 1 0	_	•	M22-WRK4
Key-operated actuators, IP66, with 1 key					
2 positions, 60° turn, stay-put	_		60°	-	M22-WRS
3 positions, 60° turn, stay-put	60°	\downarrow	60°	_	M22-WRS3
Key for MS1 individual lock mechanism	_	_	_	_	M22-ES-MS





M22-WK



M22-WKV



M22-W3



M22-WK3



M22-WR4



M22-WRK4



M22-WRS



Illuminated selector switch actuators, key-operated actuators

Description		Function: = Stay-put = Spring-ret	urn	Colour of thumb-grip	Item No.				
Illuminated selector switch actuators, IP66. Thumb grip handle									
2 positions									
		_	L	40°	0	M22-WLK-W			
		_	<u>ا</u>	40°	•	M22-WLK-G			
	Spring-return	_	L)	40°	•	M22-WLK-R			
		_	<u> </u>	40°	•	M22-WLK-Y			
		_	L	40°	•	M22-WLK-B			
-		_	L	60°	0	M22-WRLK-W			
		_	L	60°	•	M22-WRLK-G			
	Stay-put	_	L	60°	•	M22-WRLK-R			
		_	L	60°	•	M22-WRLK-Y			
		_	L	60°	•	M22-WRLK-B			
3 positions									
		40°	₩	40°	0	M22-WLK3-W			
		40°	₩	40°	•	M22-WLK3-G			
	Spring-return	40°	₩	40°	•	M22-WLK3-R			
		40°	₩	40°	0	M22-WLK3-Y			
		40°	₩	40°	•	M22-WLK3-B			
-		60°	\blacksquare	60°	0	M22-WRLK3-W			
		60°		60°	•	M22-WRLK3-G			
	Stay-put	60°		60°	•	M22-WRLK3-R			
		60°		60°		M22-WRLK3-Y			
		60°		60°	•	M22-WRLK3-B			
		-	44						

Eaton 22.5 mm pushbuttons

RMQ - Titan

















M22-I2



M22-I4





Four-way operators

Description	Inscription	Function: = Stay-put	For use with	Front ring: titanium
		> = Spring-return		Item no.
Joysticks, IP66				
2 positions	_	-	-	M22-WJ2H
2 positions	-	1	-	M22-WJ2V
Aiti	_	+	_	M22-WRJ4
4 positions	_	1	_	M22-WJ4
Pushbuttons, 4-wa	ay, IP66			
No inscription, act	uator colour black	7	-	M22-D4-S
Inscription with dis	rection arrows, actuator	+	_	M22-D4-S-X7
Inscription with dis actuator colour: bla mechanically inter	ack, opposing buttons	7	_	M22-DI4-S-X7
Labels				
	Blank	_	Joystick 4-way selector switch actuators	M22-XCK
_	<u> </u>		Joystick 4 positions	M22-XCK1
	Direction arrows	_	Joystick 2 positions	M22-XCK3
	0-1-0-2-0-3-0-4	-	4-way selector switch actuators	M22-XCK2

Surface mounting enclosures, flush mounting plates

Number of ways Qty.	Colour	Item no
Surface mounting enclosures		
1		M22-I1
2		M22-I2
3	•	M22-I3
4		M22-I4
6		M22-I6

Description	Number of ways Qty.	Colour	Item no.
Flush mounting plates Legend plates cannot be used if pushbuttons are fitted ir apertures, if required.	vertical colum	n without	
Aluminium with yellow paint finish for emergency-stop buttons	1	•	M22-EY1
	1		M22-E1
	2		M22-E2
	3		M22-E3
Aluminium, light anodized	4		M22-E4
	5	•	M22-E5
	6		M22-E6

Description				Number of ways	Item no.
01 1 1055		Plastic, li	ght grey	1	M22-H1
Shrouds, IP55		Plastic, li	ght grey	2	M22-H2
Blanking plugs, IP66	. Round style, for	Grey		_	M22-B
planking off reserve		Black		_	M22S-B
ctuator diaphragms ood industry. Do no					
or use with M22(S) M22(S)-DRL, illum ndicator lights				_	M22-T-D
or use with M22(S)	-DD(L) double a	ctuators		-	M22-T-DD
elescopic clips. For nounting depth of 1 EC/EN 60715). Max not use with Emerge	15 - 155 mm. Ster imum of 10 x M22	oless adjust -TC per enc	ment, screw fixing	g & snap fitting	(top hat rails to
or 3 contacts/LED	elements, base fixi	ng, with ce	ntering adapter	-	M22-TC
Extension for telesco	opic clip; for moun	ting depths	up to 205 mm	_	M22-TCV
Adapter rings. Set o	f adapter rings 30/2	22.3 mm, bl	ack, consists of a	dapter ring & Ic	ock nut
or fitting 22.3 mm	diameter buttons in	nto 30.5 mr	n diameter holes	_	M22S-R30
Threaded ring		M22 x 1.5 r	nm	-	M22-GR
Acoustic indicator he	ousing IP40 ① Blac	k front, wit	hout buzzer	-	M22-AMC
Buzzer - for use with		Continuous	tone	-	M22-XAM
18 - 30 V AC/DC, 83 % DF, Positive pole		Pulsed tone)	-	M22-XAMP
NEMA/UL Type 1.					
Description					Item no.
Combination box sp	anner	For thread	ed ring		M22-MS
op-hat rail adapter	aririei		715 top-hat rail, fo	er front fiving	M22-IVS
Plunger bridge. For a	actuating the	120/211 00	7 13 top nat ran, 10	i iioiit iixiiig	10122-100
middle contact elem W3 non-illuminate selector switch actu	ent of the M22- d 3-position		ntact of 3-position n-illuminated, (1 o		M22-XW
Guard ring, IP66. To accidental operation		For pushbu	utton & selector s	witch actuators	M22-XGWK
ront ring: gold (24 o	carat). Front ring no	t supplied i	ndividually:		M22-FR-AU
P65 external reset b	outton				M22-DZ-B-GB14
			Circuit	Posistanta	
			Circuit	Resistance,	Item no.
Description			symbol	R, kW	item no.
Description			symbol		M22-R1K
Description			symbol	R, kW	
Potentiometers,	3 individual screw		symbol	R, kW	M22-R1K
Potentiometers, P66	3 individual screw Pmax = 0.5 W Acc resistance value: =	curacy of	21 22	1 4.7	M22-R1K M22-R4K7
Potentiometers,	Pmax = 0.5 W Acc	curacy of	21 22	1 4.7 10	M22-R1K M22-R4K7 M22-R10K
Potentiometers,	Pmax = 0.5 W Acc	curacy of	21 22	1 4.7 10 47	M22-R1K M22-R4K7 M22-R10K M22-R47K
Potentiometers,	Pmax = 0.5 W Acc	curacy of	21 22	1 4.7 10 47 100	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R100K
Potentiometers, P66	Pmax = 0.5 W Acc resistance value: =	curacy of ±10% (linea	r) <u>zı</u> <u>+</u> 22	1 4.7 10 47 100 47	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R100K M22-R470K
Potentiometers, P66 Description Emergency-stop	Pmax = 0.5 W Acc	curacy of ±10% (linea	Inscription	1 4.7 10 47 100 470 Colour	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R470K M22-R470K Item no.
Potentiometers, P66 Description Emergency-stop	Pmax = 0.5 W Acc resistance value: =	curacy of £10% (linea	Inscription Emergency-stop Blank Emergency-stop	R, kW 1 4.7 10 47 100 470 Colour	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R100K M22-R470K Item no. M22-XZK-GB99
Potentiometers, P66	Pmax = 0.5 W Acc resistance value: =	curacy of ±10% (linea	Inscription Emergency-stop Blank	1 4.7 10 47 100 470 Colour	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R470K M22-R470K M22-R470K Item no. M22-XZK-GB99 M22-XZK
Potentiometers, P66 Description Emergency-stop	Pmax = 0.5 W Acc resistance value: =	curacy of ±10% (linea) 0 X 50 m x 50 mm	Inscription Emergency-stop Blank Emergency-stop in 4 languages	1 4.7 10 47 100 470 Colour	M22-R1K M22-R4K7 M22-R10K M22-R47K M22-R100K M22-R470K Item no. M22-XZK-GB99 M22-XZK M22-XAK1

holder

Eaton's electrical business is a global leader with expertise in power distribution and circuit protection; backup power protection; control and automation; lighting and security; structural solutions and wiring devices; solutions for harsh and hazardous environments; and engineering services. Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges.

Eaton is a power management company with 2016 sales of \$19.7 billion. Eaton provides energy efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton has approximately 95,000 employees and sells products to customers in more than 175 countries.

For more information, visit www.eaton.com.



Eaton Industries Pty Ltd ABN 66 103 014 571 10 Kent Road Mascot NSW 2020 1300 3 EATON Eatoncorp.com.au

© 2017 Eaton All Rights Reserved Printed in Australia August 2017



All other trademarks are property of their respective owners.

