

Reliable and Precise Command and Signalling



xCommand

Command and signalling – ergonomic shape, attractive design. Switching control circuit currents reliably and precisely.

Control circuit devices RMQ

Foot and palm switches FAK

Signal towers SL

Fingerprint system

Position switches LS-Titan

Rotary switches T/P

Timing relays ETR

Measuring relays EMR

Safety relays ESR

Selection aid

Control circuit devices

RMQ-Titan® and RMQ 16

Foot and palm switches FAK

Signal towers SL

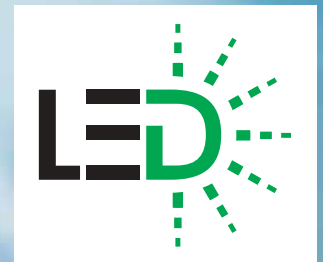
Fingerprint M22-ESA

MOELLER 

We keep power under control.

The New Control Circuit Devices RMQ-Titan® are in Great Shape

New for ATEX use
www.moeller.net/atex1



Modern styling has been combined with an optimum range of functions, – ideal for use at machines and on panels. The ergonomically shaped button elements are matched to the shape of a fingertip for even more comfortable operation.

Control circuit devices RMQ-Titan emit light non-stop for over 100 000 hours. The LED elements in RMQ-Titan do not then suddenly fail, however, the strength of their light is simply reduced. Special lenses and coloured LEDs offer enduring reliability at a very attractive price. Emergency-Stop actuators are now illuminated as well. This safety component is thus clearly visible even in dark rooms and a separate indicator light is not required.



Customised laser inscription

Whether at the control desk, in suspended operator panels or in the control cabinet, RMQ-Titan is number one when it comes to control circuit devices for machine and panel building. As well as the attractive and ergonomic design, the flexibility and versatility of the range always make it the ideal solution. All button plates, indicator lights and legend plates can be provided with abrasion resistant laser inscriptions of texts and symbols as required.



Optimum degree of protection for safety

Apart from the acoustic indicator, all RMQ-Titan front elements come with protection to at least IP67, thus already providing virtually unlimited scope for applications. Pushbutton actuators and indicator lights even offers protection to IP 69K! They can therefore be cleaned safely with high-pressure and steam cleaners – a key benefit in applications where cleanliness and hygiene are important requirements.



Adapted to the location

Mushroom actuators with a large actuation area offer more safety thanks to their conspicuous design and their ability to even be actuated with gloved hands. Illuminated Emergency-Stop buttons and buzzers ensure reliable signal indication even in dark rooms. Special diaphragms are also available for protecting buttons against dust, flour or cement.



Complete units

Ready-to-use complete units are available for standard solutions such as ON, ON/OFF, Emergency-Stop with and without a keyswitch etc. They can be supplied for front mounting and in surface mounting enclosures. The foot and palm switch FAK offers special features. Created for particularly rugged applications with extremely high protection to IP 69 K, this device stands out with its impressive design, and is often seen in TV quiz shows.



Always well enclosed

The surface mounting enclosure for eight control circuit devices RMQ16 with protection to IP65 is specially designed for industrial applications. The surface mounting enclosure in the RMQ-Titan range even provides protection to IP66 with up to 6 mounting locations.

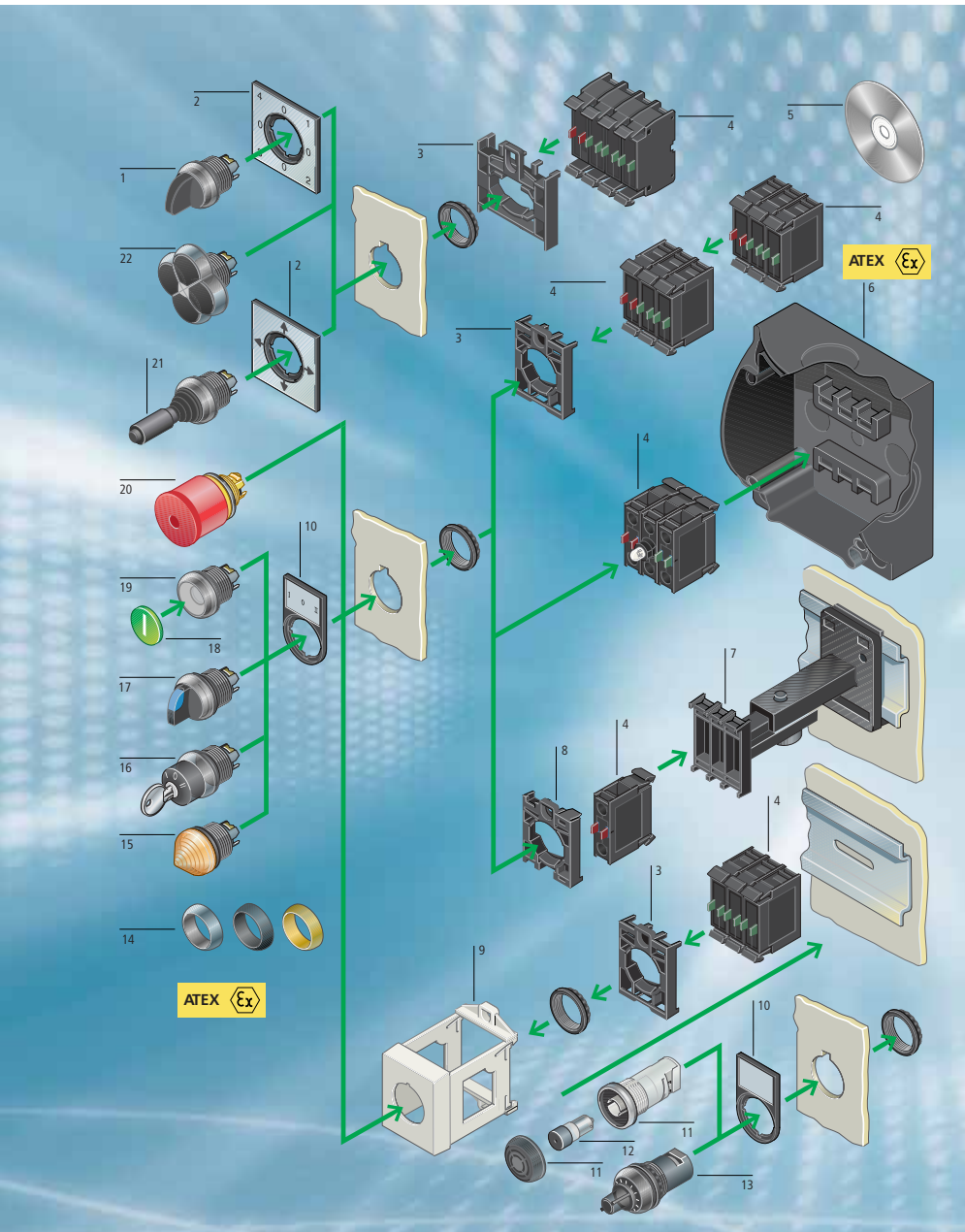


Finger identification

Lost your keys, misplaced your ID card or forgotten your PIN code? In addition to the annoyance caused by these everyday problems, the "conventional" access systems cost companies a vast amount in administration costs. Fingerprints on the other hand are unique and cannot be lost. The devices detect the temperature differences between the furrows of the finger, and can thus identify each finger accurately. The M22-ESA meets all the requirements for easy-to-use, reliable and flexible access control.

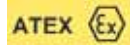
System Overview

RMQ-Titan[®]



Push-button actuators, flush

NEMA 4X, 13
IP 67, 69K



Front ring black: M22S...

Button plate	Actuator spring-return	Actuator stay-put
●	M22-D-S	M22-DR-S
○	M22-D-W	M22-DR-W
●	M22-D-R	M22-DR-R
●	M22-D-G	M22-DR-G
●	M22-D-Y	M22-DR-Y
●	M22-D-B	M22-DR-B
●	M22-D-R-X0	M22-DR-R-X0
●	M22-D-G-X1	M22-DR-G-X1
●	M22-D-S-X0	M22-DR-S-X0
●	M22-D-W-X1	M22-DR-W-X1
Without	M22-D-X	M22-DR-X
Without button plate	M22-DG-X	
With guard ring		



Push-button, extended

NEMA 4X, 13
IP 67, 69K



Front ring black: M22S...

Button plate	Actuator spring-return	Actuator stay-put
●	M22-DH-S	M22-DRH-S
○	M22-DH-W	M22-DRH-W
●	M22-DH-R	M22-DRH-R
●	M22-DH-G	M22-DRH-G
●	M22-DH-Y	M22-DRH-Y
●	M22-DH-B	M22-DRH-B
●	M22-DH-R-X0	M22-DRH-R-X0
●	M22-DH-G-X1	M22-DRH-G-X1
●	M22-DH-S-X0	M22-DRH-S-X0
●	M22-DH-W-X1	M22-DRH-W-X1
Without	M22-D-X	M22-DR-X

- 1 4 position selector switch actuators
- 2 Front label for 4-way selector switch/joystick
- 3 Fixing adapter
- 4 Contact element
- 5 Inscription software
- 6 Enclosure
- 7 Telescopic clip
- 8 Centring adapter
- 9 Distribution board rail adapter
- 10 Label plate
- 11 Acoustic indicator
- 12 Buzzer

- 13 Potentiometer
- 14 Frontring Titanium M22
Black M22S
(add S to types if necessary)
Gold: see page 12
- 15 Indicator light
- 16 Key switch
- 17 Selector switch
- 18 Button plate/button lens
- 19 Push-button
- 21 Joystick
- 20 Emergency-stop button



"The order is handled via M22-COMBINATION-*"

Additional order specification "M22-ATEX"



Mushroom actuators				Selector switch actuators			Key-operated actuators	
NEMA 4X, 13 IP 67, 69K Front ring black: M22S...				NEMA 4X, 13 IP 66 Front ring black: M22S... ↳ = stay-put ↳ = spring-return			NEMA 4X, 13 IP 66 Front ring black: M22S...	
Button plate	Mush-room	spring-return	stay-put	Function	Rotary button 2 positions	Thumb-grip 2 positions	MS1 lock mechanism, 2 positions	MS2-20 lock mechanism, 2 positions
●	●	M22-DP-S	M22-DRP-S	↳	M22-W	M22-WK	M22-WS	M22-WS-MS*
●	●	M22-DP-R	M22-DRP-R	↳	M22-WR	M22-WRK	M22-WRS	M22-WRS-MS*
●	●	M22-DP-G	M22-DRP-G	∨		M22-WKV		
●	●	M22-DP-Y	M22-DRP-Y		3 positions	3 positions	3 positions	3 positions
●	●	M22-DP-R-X0	M22-DRP-R-X0	↔	M22-W3	M22-WK3	M22-WS3	M22-WS3-MS*
●	●	M22-DP-G-X1	M22-DRP-G-X1	↕	M22-WR3	M22-WRK3	M22-WRS3	M22-WRS3-MS*
●	●	M22-DP-S-X0	M22-DRP-S-X0	↕		M22-WRK3-1	Also available with lock mechanism suitable for master key systems	
①	●	M22-DP-W-X1	M22-DRP-W-X1	↔		M22-WRK3-2		
Without	●	M22-DP-S-X	M22-DRP-S-X		4 positions	4 positions		
Without	●	M22-DP-R-X	M22-DRP-R-X	⊗	M22-WR4	M22-WRK4	Protective diaphragm for use with	
Without	●	M22-DP-G-X	M22-DRP-G-X				M22-WS ...	M22-XWS
Without	●	M22-DP-Y-X	M22-DRP-Y-X					



Illuminated push-button actuators					Indicator light lens assemblies	
NEMA 4X, 13 IP 67, 69K Front ring black: M22S...					NEMA 4X, 13 IP 67, 69K	
Button lens	Actuators flush, spring-return	Actuators flush, stay-put	Actuators extended, spring-return	Actuators extended, stay-put	Flush	Extended, conical
○	M22-DL-W	M22-DRL-W	M22-DLH-W	M22-DRLH-W	M22-L-W	M22-LH-W
●	M22-DL-R	M22-DRL-R	M22-DLH-R	M22-DRLH-R	M22-L-R	M22-LH-R
●	M22-DL-G	M22-DRL-G	M22-DLH-G	M22-DRLH-G	M22-L-G	M22-LH-G
●	M22-DL-Y	M22-DRL-Y	M22-DLH-Y	M22-DRLH-Y	M22-L-Y	M22-LH-Y
●	M22-DL-B	M22-DRL-B	M22-DLH-B	M22-DRLH-B	M22-L-B	M22-LH-B
Without	M22-DL-X	M22-DRL-X	M22-DLH-X	M22-DRLH-X	M22-L-X	M22-LH-X
●	M22-DL-R-X0	M22-DRL-R-X0	M22-DLH-R-X0	M22-DRLH-R-X0		
●	M22-DL-G-X1	M22-DRL-G-X1	M22-DLH-G-X1	M22-DRLH-G-X1	Colour Lens, thumb-grip	Colour LED
●	M22-DL-W-X0	M22-DRL-W-X0	M22-DLH-W-X0	M22-DRLH-W-X0		
①	M22-DL-W-X1	M22-DRL-W-X1	M22-DLH-W-X1	M22-DRLH-W-X1		



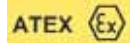
"The order is handled via
M22-COMBINATION-*"

Additional order specification
"M22-ATEX"



Double actuator

NEMA 4X, 13
IP 67, 69K



Front ring black: M22S...

Button plates	Actuator and indicator light extended	Actuator and indicator light flush	ON buttons and indicator light flush, OFF button extended
I O I O START STOP START STOP ↑ ↓ + - Colours and symbols customised	M22-DDL-GR-X1/X0 M22-DDL-WS-X1/X0 M22-DDL-GR-GB1/GB0 M22-DDL-WS-GB1/GB0 M22-DDL-S-X7/X7 M22-DDL-S-X4/X5 M22-DDL-GR M22-DDL-WS M22-DDL-*-*-*	M22-DDLF-GR-X1/X0 M22-DDLF-WS-X1/X0 M22-DDLF-*-*-*	M22-DDLM-GR-X1/X0 M22-DDLM-WS-X1/X0



Illuminated selector switch actuators						Selector switch actuators
NEMA 4X, 13 IP 66						ATEX Ex NEMA 4X, 13 IP 66
Front ring black: M22S...						ATEX Ex
Thump-Grip	2 positions spring-return	2 positions stay-put	3 positions spring-return	3 positions stay-put	2 positions (V position, 60°) spring-return	2 positions (V position, 60°) stay-put
 	M22-WLK-W M22-WLK-R M22-WLK-G M22-WLK-Y M22-WLK-B	M22-WRLK-W M22-WRLK-R M22-WRLK-G M22-WRLK-Y M22-WRLK-B	M22-WLK3-W M22-WLK3-R M22-WLK3-G M22-WLK3-Y M22-WLK3-B	M22-WRLK3-W M22-WRLK3-R M22-WRLK3-G M22-WRLK3-Y M22-WRLK3-B	M22-WLKV-W M22-WLKV-R M22-WLKV-G M22-WLKV-Y M22-WLKV-B	M22-WKV

Front ring gold



Front ring gold-plated

Version

Part no.

Order only via
M22 combination
as complete unit

M22 combination - *
M22-FR-AU
M22..... (basic unit)



Joystick		Selector switch actuators		
2 and 4 positions IP 66		NEMA 4X, 13 IP 66		
Front ring black: M22S...		Front ring black: M22S...		
Function	Part no. Front ring titanium Front ring black	Function	Rotary button, 4 positions	Thumb-grip 4 positions
Spring-return			M22-WR4	M22-WRK4
in 2 positions horizontal	M22-WJ2H			
in 2 positions vertical	M22-WJ2V			
in 4 positions	M22-WJ4			
Stay-put				
in 2 positions horizontal	M22-WRJ2H			
in 2 positions vertical	M22-WRJ2V			
in 4 positions	M22-WRJ4			



4 position push-button			
IP 66			
Front ring black: M22S...			
Function	Inscription	Colour	Part no.
Buttons not mechanically interlocked			
All buttons spring-return	Directional arrows	Black	M22-D4-S-X7
All buttons spring-return	None	Black	M22-D4-S
All buttons spring-return	Individual	Individual	M22-D4-*-*
Opposing buttons mechanically interlocked			
All buttons spring-return	Directional arrows	Black	M22-DI4-S-X7
All buttons spring-return	Individual	Individual	M22-DI4-*-*

Labels	
for joystick for 4-way selector switch	
Version	Part no.
 Blank	M22-XCK
 Arrows	M22-XCK-1 for joystick 4 positions
 Arrows	M22-XCK-3 for joystick 2 positions
 0-1-0-2-0-3-0-4	M22-XCK-2 for 4-way selector switch
 with individual inscription	M22-XCK-*



"The order is handled via
M22-COMBINATION-*"

Additional order specification
"M22-ATEX"



Emergency-Stop actuators			Contact elements		
NEMA 4X, 13 IP 66, 69K ¹⁾ Pull to release ²⁾ Turn to release IP 67			ATEX Ex IP 20		
Function	Tamper proof		Function	Screw terminal	Cage Clamp ³⁾
Non-illuminated	●	M22-PV ¹⁾ M22-PVT ²⁾	Front fixing \' 7 ⊕ 7 ⊕	M22-K10	M22-CK10
Non-illuminated	●	M22S-PV ¹⁾		M22-K01	M22-CK01
illuminated	●	M22-PVL ¹⁾ M22-PVLT ²⁾	Base fixing \' 7 ⊕	M22-K01D	M22-CK01D
illuminated	●	M22S-PVL ¹⁾		M22-KC10	M22-CKC10
With key-telease MS1 individual lock mechanism		●		M22-KC01	M22-CKC01
With key-telease MS2-20 individual lock mechanism		●		⊕ = Positive opening safety function to IEC/EN 60947-5-1	
Sealable shroud	Protective collar for Emergency-Stop push-buttons	Emergency-Stop labels	Front fixing	Screw terminal Cage Clamp ³⁾	Note
M22-PL-PV	M22-XG-PV	see current Industrial Switchgear main catalogue	Base fixing	M22-A M22-A4	max. 3 contact elements max. 4 contact elements (only for 4-way switch and Joystick)
				Built into the enclosure	max. 3 contact elements



Acoustic indicators		LED elements			
IP 40		IP 20			
Compact without buzzer		Screw terminal		Cage Clamp ³⁾	
		12-30 V AC/DC	85-264 V AC	12-30 V AC/DC	85-264 V AC
M22-AMC	○	M22-LED-W	M22-LED230-W	M22-CLED-W	M22-CLED230-W
	●	M22-LED-R	M22-LED230-R	M22-CLED-R	M22-CLED230-R
	●	M22-LED-G	M22-LED230-G	M22-CLED-G	M22-CLED230-G
	●	M22-LED-B	M22-LED230-B	M22-CLED-B	M22-CLED230-B
Buzzer 24 V AC/DC +10% / -15%	○	M22-LEDC-W	M22-LEDC230-W	M22-CLEDC-W	M22-CLEDC230-W
Continuous tone M22-XAM	●	M22-LEDC-R	M22-LEDC230-R	M22-CLEDC-R	M22-CLEDC230-R
	●	M22-LEDC-G	M22-LEDC230-G	M22-CLEDC-G	M22-CLEDC230-G
	●	M22-LEDC-B	M22-LEDC230-B	M22-CLEDC-B	M22-CLEDC230-B
Pulsed tone M22-XAMP	○	M22-LEDC-W	M22-LEDC230-W	M22-CLEDC-W	M22-CLEDC230-W

Housing	
NEMA 4X, 13 IP 67 ¹⁾ ATEX Ex Addition to ATEX: M22 enclosure ATEX also available as individual unit	
Locations	Surface mounting enclosures
1 ●	M22-IY1
1 ○	M22-IY1-ATEX ¹⁾
2 ○	M22-I1
2 ○	M22-I1-ATEX ¹⁾
3 ○	M22-I2
3 ○	M22-I2-ATEX ¹⁾
4 ○	M22-I3
4 ○	M22-I3-ATEX ¹⁾
6 ○	M22-I4
6 ○	M22-I4-ATEX ¹⁾
12 ○	M22-I6
12 ○	M22-I6-ATEX ¹⁾
Connecting screw for M22-I...	M22-I12
	M22-XI
NEMA 4X, 13 IP 54	
Locations	Flush mounting panels
1 ●	M22-EY1
1 ○	M22-E1
2 ○	M22-E2
3 ○	M22-E3
4 ○	M22-E4
5 ○	M22-E5
6 ○	M22-E6
NEMA 4X, 13 IP 55, 40*	
Locations	Shrouds
1 ○	M22-H1
2 ○	M22-H2
3 ○	M22-H3
4 ○	M22-H4*
5 ○	M22-H5*
6 ○	M22-H6*

³⁾ Cage clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden



"The order for FAK-ATEX is handled via FAK-COMBINATION-* with the specification FAK-ATEX"



Foot and palm switches			Emergency-Stop button		
NEMA 4X, 13 IP 67, 69K			NEMA 4X, 13 IP 67, 69K tamper proof		
Mush-room head	Function	Spring-return	Mush-room head	Function	Spring-return
	$\Upsilon \ominus$	FAK-S/KC11/I		$\Upsilon \ominus$	FAK-R/V/KC01/IY
	$\Upsilon \ominus$	FAK-R/KC11/I		$\Upsilon \ominus$	FAK-R/V/KC11/IY
				$\Upsilon \Upsilon \ominus$	FAK-R/V/KC02/IY

Indicator lights	
conical, BA9s	
Lens	for filament lamps, neon lamps and LEDs
	L-R
	L-W
	L-G
	L-Y



Accessories							
For use with	IVS top-hat rail adapter	For use with	Actuators diaphragms	For use with	Telescopic clips		Legend plates
Top-hat rail EN 50 022	M22-IVS	Push-button actuators indicator lights, flush Double actuators	M22-T-D M22-T-DD	Mounting depth compensation 115–155 mm With top-hat rail	M22-TC M22-TA	With various languages and symbols	M22S-ST-...



LED series elements for front and base fixing		AS-Interface	
Function	Part no.	For use with	Part no.
LED resistor element for connection of 12-30 V LED's to 42-60 V AC/DC	M22-XLED60	M22-I3, -I4, -I6	RMQ-M1C-ASI
LED resistor element for connection of 12-30 V LED's to 220 V DC	M22-XLED220	RMQ Titan contact and bulb socket elements RMQ16:I8, E8	RMQ-M2C-ASI
LED test element for decoupled function test (lamp test) on 12-30 V AC/DC	M22-XLED-T	RMQ Titan front fixing	M22-ASI M22-ASI-S
LED test element for decoupled function test (lamp test) on 85-264 V AC	M22-XLED230-T	RMQ Titan base fixing	M22-ASI-C M22-ASI-CD

Potentiometer, IP 66	
Resistance K Ω	Part no. Front ring black: M22S...
1	M22-R1K
4.7	M22-R4K7
10	M22-R10K
47	M22-R47K
100	M22-R100K
470	M22-R470K

The ID Card in Your Fingertip

The Fingerprint System M22-ESA

xCommand



Lost your keys, misplaced your ID card or forgotten your PIN code? In addition to the annoyance caused by these everyday problems, the "conventional" access systems cost companies a vast amount in administration costs. The fingerprint system M22-ESA which acts as an electronic master lock system for machines, systems and buildings, fully eliminates these administrative costs. Fingerprints are unique, cannot be lost and can be precisely assigned to a particular person. The M22-ESA fulfils all the demands for a simple, reliable and flexible access control system.



Easy to fit:

1. The M22-ESA requires just as the RMQ-Titan series devices, a standard 22.5mm diameter fitting aperture.
2. Fit the operating panel using the patented Moeller tool.
3. Simple fitting of the fingerprint system M22-ESA on the operating panel.
4. The fingerprint system is fitted.

Simply more secure

The security benefits of the M22-ESA series are based on the uniqueness of biometric features. A person's fingerprint does not change in the course of his lifetime just as the characteristics of his fingerprint cannot be transferred to third parties. Different persons simply don't have the same fingerprint; even the fingerprints of twins are unique. Administrative costs which result from loss or forgetfulness with conventional access control systems are completely eliminated. The thermal line sensor of the M22-ESA recognises authorized persons via the minutiae of the fingerprint. By the limitation of the evaluation area (possibility of savings just a certain section of the fingerprint) the imitation is made even more difficult. The system saves up to 100 different fingerprints.

Sensor complete

(including CPU/PS), 24 V DC



M22-ESA

Sensor



M22-ESA1

CPU/PS, 24 V DC



M22-ESA-R

Multi-function display



MFD-80-B

Communication module, 24 V DC



MFD-CP4

115/230 V AC
MFD-AC-CP4-800

Fast commissioning:



1. The user selects the Learn menu option on the MFD-Titan



2. The MFD-Titan recognizes the fingerprint M22-ESA and requests pulling the finger across the sensor in order to learn the fingerprint.



3. The **Successful** message on the display of the MFD-Titan indicates that the device has saved the fingerprint and has registered the authorized person.

4. A green LED on the fingerprint reader indicates access authorization. When all access authorized fingerprints are saved, the installer removes the MFD-Titan. Only a single MFD-Titan is required for commissioning of multiple fingerprint systems, which saves costs and time due to easy data storage.



Download free of charge at:



www.moeller.net/fingerprint

Commissioning with the simulation software MFD-CP4-Simulation is an alternative.

Power supply unit, Easy-POW see section Operating and control relays

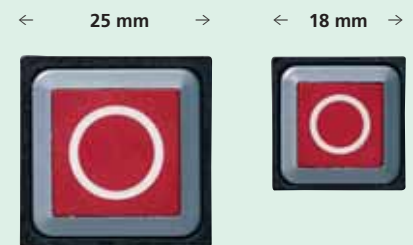
High Information Density Thanks to Compact Mounting: RMQ 16

xCommand



The control panels of modern machines and plants must be able to convey increasingly complex information, even though the available space is limited. The RMQ16 range of compact control circuit devices provides the solution.

The various front elements can be mounted flush on all four sides, without any gaps. Compared with conventional 22 mm ranges, using RMQ16 devices with their 18 x 18 mm front dimension, achieves three times the information density.



Two sizes of front element:
25 x 25 mm and 18 x 18 mm.
Both sizes use the same,
standard mounting aperture
of 16.2 mm.

System Overview

RMQ16



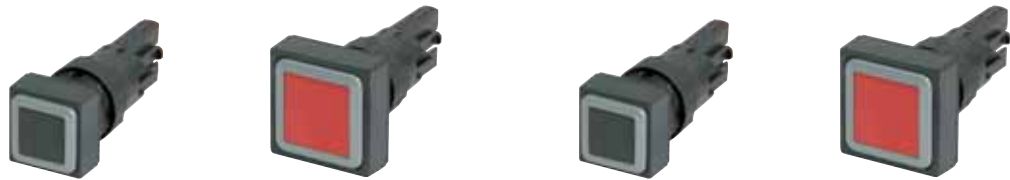
- 1 Emergency-stop button
- 2 Base plate
- 3 Key switch
- 4 Contact element break (red)
- 5 Illuminated push button
- 6 Contact element make (green)
- 7 Selector switch
- 8 Indicator light
- 9 Push-button
- 10 Button plate/insert label

Label mounts with insert plates offer additional labelling options. Secured via the front elements, both elements are simply bolted on from the rear of the flush mounting plate using a lock nut.

The RMQ 16 control circuit devices range can also be inscribed. The button plates as well as the lenses for the illuminated push buttons and the flat lenses for indicator lights are inscribed by laser (see page 212 for Label Editor information) Thus, even after years of use, the information they provide is still clear and unambiguous. These control circuit devices can be fitted with LEDs instead of filament bulbs. This means no more changing of bulbs, because LED service life equals machine life. The high degree of protection, IP 65, of the front elements ensures safe operation even in harsh environments. This makes RMQ16 ideally suitable for industrial applications.










“Side by side mounting enables well ordered control panels on the smallest possible space.”



Push-button actuators






IP 65, NEMA 13

Button plates	18 x 18 mm Spring-return	25 x 25 mm Spring-return	18 x 18 mm Stay-put	25 x 25 mm Stay-put
	Q18D-11	Q25D-11		
	Q18D-10	Q25D-10		
	Q18D-20	Q25D-20		
	Q18D-19	Q25D-19		
	Q18D-SW	Q25D-SW	Q18DR-SW	Q25DR-SW
	Q18D-WS	Q25D-WS	Q18DR-WS	Q25DR-WS
	Q18D-GN	Q25D-GN	Q18DR-GN	Q25DR-GN
	Q18D-RT	Q25D-RT	Q18DR-RT	Q25DR-RT
	Q18D-GE	Q25D-GE	Q18DR-GE	Q25DR-GE
	Q18D-BL	Q25D-BL	Q18DR-BL	Q25DR-BL
Without	Q18D-X	Q25D-X	Q18DR-X	Q25DR-X



Illuminated push-button actuators

IP 65, NEMA 13
with 24 V filament lamp

Button lens	18 x 18 mm Spring-return	25 x 25 mm Spring-return	18 x 18 mm Stay-put	25 x 25 mm Stay-put
	Q18LT-WS/WB	Q25LT-WS/WB	Q18LTR-WS/WB	Q25LTR-WS/WB
	Q18LT-GN/WB	Q25LT-GN/WB	Q18LTR-GN/WB	Q25LTR-GN/WB
	Q18LT-RT/WB	Q25LT-RT/WB	Q18LTR-RT/WB	Q25LTR-RT/WB
	Q18LT-GE/WB	Q25LT-GE/WB	Q18LTR-GE/WB	Q25LTR-GE/WB
	Q18LT-BL/WB	Q25LT-BL/WB	Q18LTR-BL/WB	Q25LTR-BL/WB



Key-operated actuators

IP 65, NEMA 13

18 x 18 mm 2 positions	25 x 25 mm 2 positions	18 x 18 mm 3 positions	25 x 25 mm 3 positions
↳ ⁰ Q18S1	↳ ⁰ Q25S1	↕ ⁰ Q18S3	↕ ⁰ Q25S3
↳ ^{0,I} Q18S1R	↳ ^{0,I} Q25S1R	↕ ^{I,0,II} Q18S3R	↕ ^{I,0,II} Q25S3R
↳ ⁰ Q18S1R-A1	↳ ⁰ Q25S1R-A1	↕ ⁰ Q18S3R-A1	↕ ⁰ Q25S3R-A1
		↕ ^{I,0} Q18S3R-A2	↕ ^{I,0} Q25S3R-A2
		↕ ^{0,II} Q18S3R-A3	↕ ^{0,II} Q25S3R-A3
		↕ ^{I,0} Q18S3R-A4	↕ ^{I,0} Q25S3R-A4
		↕ ⁰ Q18S3R-A5	↕ ⁰ Q25S3R-A5
		↕ ^{0,II} Q18S3R-A6	↕ ^{0,II} Q25S3R-A6
		↕ ⁰ Q18S3R-A7	↕ ⁰ Q25S3R-A7

Selector switch actuators

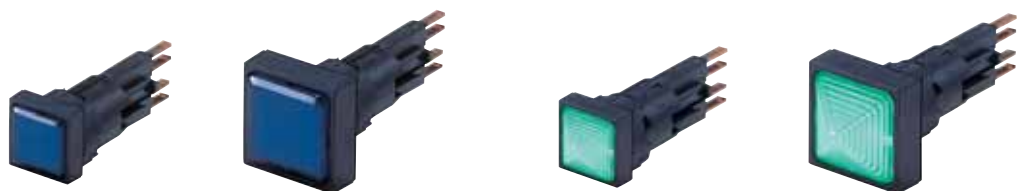
IP 65, NEMA 13

18 x 18 mm 2 positions	25 x 25 mm 2 positions
↳ Q18WK1	↳ Q25WK1
↳ Q18WK1R	↳ Q25WK1R
3 positions	3 positions
↕ Q18WK3	↕ Q25WK3
↕ Q18WK3R	↕ Q25WK3R
↕ Q18WK3R1	↕ Q25WK3R1
↕ Q18WK3R2	↕ Q25WK3R2

↳ = Stay-put 45° ↳ = Spring-return 45° For further individual locking arrangements please enquire

↳ = Stay-put 45° ↳ = Spring-return 45°

I,0,II = Key can be withdrawn in the positions indicated



Indicator lights

IP 65, NEMA 13
with 24 V filament lamp

Lens	18 x 18 mm Flush	25 x 25 mm Flush	18 x 18 mm Extended	25 x 25 mm Extended
□	Q18LF-WS/WB	Q25LF-WS/WB	Q18LH-WS/WB	Q25LH-WS/WB
■	Q18LF-GN/WB	Q25LF-GN/WB	Q18LH-GN/WB	Q25LH-GN/WB
■	Q18LF-RT/WB	Q25LF-RT/WB	Q18LH-RT/WB	Q25LH-RT/WB
■	Q18LF-GE/WB	Q25LF-GE/WB	Q18LH-GE/WB	Q25LH-GE/WB
■	Q18LF-BL/WB	Q25LF-BL/WB	Q18LH-BL/WB	Q25LH-BL/WB



Emergency-Stop actuators

IP 65,
NEMA 13
Tamper proof
25 x 25 mm

Non-illuminated	illuminated by means of 24 V multiple LED
Q25PV	Q25LPV
Q25PV-S	Q25LPV-S

Emergency-Stop labels

in four languages SQT1	in four languages SRT1
Blank SQ-GE	Blank SR-GE

Housing

IP 65

Locations	Surface mounting enclosures	Flush mounting panels
8	1 8	E 8
8		E 8-SW



Contact elements

⊕ = Positive opening safety function to IEC / EN 60 947-5-1

N/O		N/C	
E10		E01	

Screw adapter

1 x 1.5 mm²
2 x 0.75 mm²

For N/O	For N/C	For lamp sockets
SRA10	SRA01	SRAL



Illuminated selector switches

IP 65,
NEMA 13
with 24 V filament lamp

= Stay-put 45° = Spring-return 45°

	18 x 18 mm 2 positions	25 x 25 mm 2 positions	18 x 18 mm 2 positions	25 x 25 mm 2 positions	18 x 18 mm 2 positions	25 x 25 mm 2 positions
	Q18LWK1-WS/WB	Q25LWK1-WS/WB	Q18LWK1-GN/WB	Q25LWK1-GN/WB	Q18LWK1-RT/WB	Q25LWK1-RT/WB
	Q18LWK1R-WS/WB	Q25LWK1R-WS/WB	Q18LWK1R-GN/WB	Q25LWK1R-GN/WB	Q18LWK1R-RT/WB	Q25LWK1R-RT/WB
	3 positions	3 positions	3 positions	3 positions	3 positions	3 positions
	Q18LWK3-WS/WB	Q25LWK3-WS/WB	Q18LWK3-GN/WB	Q25LWK3-GN/WB	Q18LWK3-RT/WB	Q25LWK3-RT/WB
	Q18LWK3R-WS/WB	Q25LWK3R-WS/WB	Q18LWK3R-GN/WB	Q25LWK3R-GN/WB	Q18LWK3R-RT/WB	Q25LWK3R-RT/WB
	Q18LWK3R1-WS/WB	Q25LWK3R1-WS/WB	Q18LWK3R1-GN/WB	Q25LWK3R1-GN/WB	Q18LWK3R1-RT/WB	Q25LWK3R1-RT/WB
	Q18LWK3R2-WS/WB	Q25LWK3R2-WS/WB	Q18LWK3R2-GN/WB	Q25LWK3R2-GN/WB	Q18LWK3R2-RT/WB	Q25LWK3R2-RT/WB



Interface PCB's		
Bus system	For Titan surface mounting enclosures	
AS-Interface 4 I + 4 Q	RMQ-M1C-ASI	

Additional labelling		
	Insert plates	Label mounts, complete
	10 x 22 mm	25 x 38 mm
	01SQ25	Q25TS-01
	02SQ25	Q25TS-02
	05SQ25	Q25TGE-05
	111SQ25	Q25TS-111
	110SQ25	Q25TS-110
	10SQ25	Q25TS-10
	11SQ25	Q25TS-11
	without	Q25TS-X
Additional texts and symbols	See Industrial Switchgear Main Catalogue	

Cover plate	
IP 65	
For surface mounting enclosures and flush mounting panels	25 x 38 mm
	Q25AS
	Q25AGR
	Q25AGE

Laser inscription
Labelling plates
See Industrial Switchgear Main Catalogue

Blanking plug, IP 65		
	18 x 18 mm	25 x 38 mm
	Q18BS	Q25BS

Lights			
Socket Wedge Base W2x4,6d Positive pole connected to X1			
Filament lamps	6 V / 1 W	12 V / 1 W	24-28 V / 1 W
	WBGL6	WBGL12	WBGL24
LEDs (AC / DC)	6 V / 45 mA	12 V / 24 mA	18-30 V / 7-12.5 mA
	—	—	LEDWB-W
	WBLED-GN6	WBLED-GN12	LEDWB-G
	WBLED-RT6	WBLED-RT12	LEDWB-R
	WBLED-GE6	WBLED-GE12	LEDWB-Y
	—	—	LEDWB-B

Clear Signals – Quick Reactions



A clear picture at a glance

Signal towers SL provide visual and audible signals of machine states, easily identifiable even at a distance. Signals are distinguishable as continuous light, flashing light, strobe light or acoustic indication, enabling their level of importance to be correctly evaluated without delay.

The individual modules can be combined as required, and simply assembled by plugging the bayonet fitting into place and turning slightly.

The individual modules are freely programmable by merely relocating a wire link (jumper) on each module board. This, for example, enables a dangerous machine state to be indicated by a red flashing light backed up at the same time by an audible alarm signal. To achieve this, put the jumpers of both modules in the same position on the module board, irrespective of the module position in the column.

1 Base module

2 Light modules

3 Fixing base



Signal towers SL indicate the machine operating state clearly and unmistakably.



Base module	
IP 54 Black with cover	
Description	Part no.
With screw terminals	SL-B
With Cage Clamp	SL-CB
With connection AS-Interface	SL-B-ASI






Acoustic module		
IP 20		
Operational voltage	Part no. Continuous tone	Part no. Pulsed tone
24 V AC/DC	SL-A24	SL-AP24
110-230 V AC/DC	SL-A110-230	SL-AP110-230

Fixing base		
With spacer		
Height mm	Part no. Plastic	Part no. Metal
100	SL-F100	SL-F100M
250	SL-F250	SL-F250M
400		SL-F400
800		SL-F800

Signal columns

Individual programming via jumpers
Max. 5 modules and base module



	Continuous light module	Flashing light module	Operating voltages	Multiple LED	Filament lamp	Strobe light module
	Without bulb, BA15d socket	Without bulb, approx. 1 Hz, BA15d socket		BA15d socket	BA15d socket	With flash tube, 1 Hz, 1 Ws
	Part no.	Part no.		Part no.	Part no.	Part no.
	SL-L-W	SL-BL24-W SL-BL130-W SL-BL230-W	24 V AC/DC 110-130 VAC 230 VAC	SL-LED-W SL-LED230-W SL-LED230-W	SL-L24 SL-L130 SL-L230	SL-FL24-W SL-FL130-W SL-FL230-W
	SL-L-R	SL-BL24-R SL-BL130-R SL-BL230-R	24 V AC/DC 110-130 VAC 230 VAC	SL-LED-R SL-LED230-R SL-LED230-R	SL-L24 SL-L130 SL-L230	SL-FL24-R SL-FL130-R SL-FL230-R
	SL-L-G	SL-BL24-G SL-BL130-G SL-BL230-G	24 V AC/DC 110-130 VAC 230 VAC	SL-LED-G SL-LED230-G SL-LED230-G	SL-L24 SL-L130 SL-L230	
	SL-L-Y	SL-BL24-Y SL-BL130-Y SL-BL230-Y	24 V AC/DC 110-130 VAC 230 VAC	SL-LED-Y SL-LED230-Y SL-LED230-Y	SL-L24 SL-L130 SL-L230	SL-FL24-Y SL-FL130-Y SL-FL230-Y
	SL-L-B	SL-BL24-B SL-BL130-B SL-BL230-B	24 V AC/DC 110-130 VAC 230 VAC	SL-LED-B SL-LED230-B SL-LED230-B	SL-L24 SL-L130 SL-L230	

Moeller addresses worldwide
www.moeller.net/address
E-Mail: info@moeller.net

© 2005 by Moeller GmbH
Subject to alteration
AH1160-039GB MDS/Eb 02/05
Printed in Germany (08/05)
Article No.: 292351



Xtra Combinations

Xtra Combinations from Moeller offers a range of products and services, enabling the best possible combination options for switching, protection and control in power distribution and automation.

Using Xtra Combinations enables you to find more efficient solutions for your tasks while optimising the economic viability of your machines and systems.

It provides:

- Flexibility and simplicity
- Great system availability
- The highest level of safety

All the products can be easily combined with one another mechanically, electrically and digitally, enabling you to arrive at flexible and stylish solutions tailored to your application – quickly, efficiently and cost-effectively.

The products are proven and of such excellent quality that they ensure a high level of operational continuity, allowing you to achieve optimum safety for your personnel, machinery, installations and buildings.

Thanks to our state-of-the-art logistics operation, our comprehensive dealer network and our highly motivated service personnel in 80 countries around the world, you can count on Moeller and our products every time. Challenge us! We are looking forward to it!

MOELLER



We keep power under control.