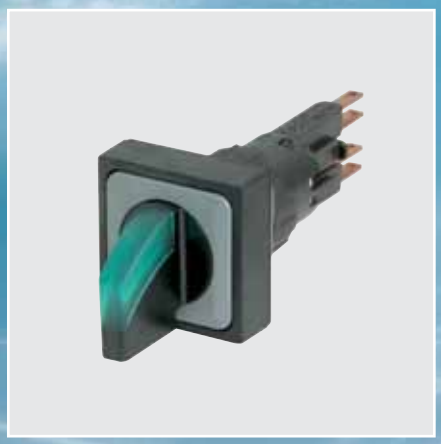
Reliable and Precise Command and Signalling













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

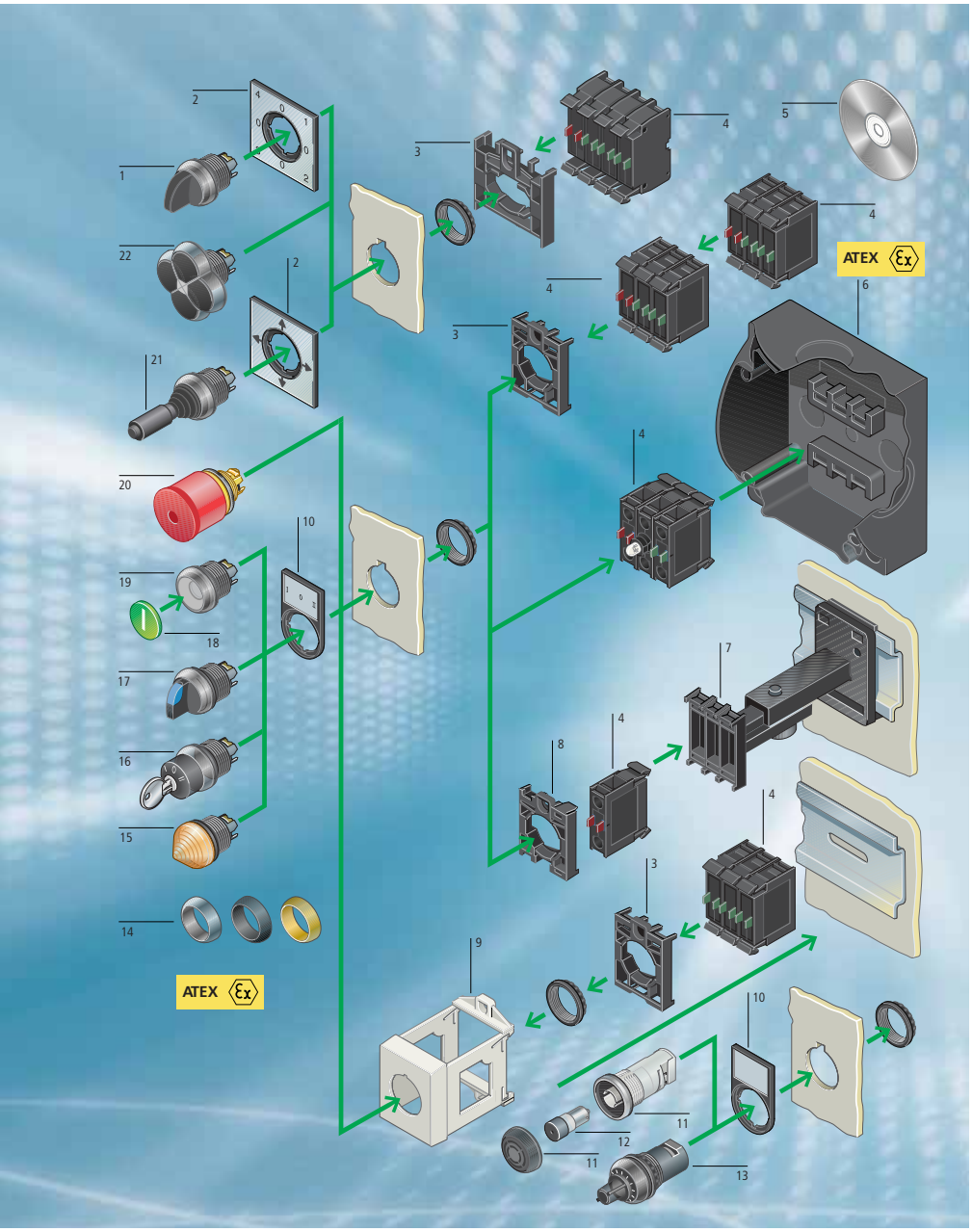
The surface mounting enclosure for eight control circuit devices RMQ16 with protection to IP65 is specially designed for industrial applications. The surface mounting enclosure in the RMQ-Titan range even provides protection to IP66 with up to 6 mounting locations.



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®



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 M22**S**
(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
22 4 position button
20 Emergency-stop button



Push-button actuators, flush

NEMA 4X, 13
IP 67, 69K
ATEX

Front ring black: M22**S**...

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 Without button plate With guard ring	M22-D-X M22-DG-X	M22-DR-X



Push-button, extended

NEMA 4X, 13
IP 67, 69K
ATEX

Front ring black: M22**S**...

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

ATEX

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

Additional order specification "M22-ATEX"






Mushroom actuators

NEMA 4X, 13
IP 67, 69K

ATEX

Front ring black: M22**S**...

Button plate	Mush-room	spring-return	stay-put
●	●	M22-DP-S	M22-DRP-S
●	●	M22-DP-R	M22-DRP-R
●	●	M22-DP-G	M22-DRP-G
●	●	M22-DP-Y	M22-DRP-Y
◎	●	M22-DP-R-X0	M22-DRP-R-X0
I	●	M22-DP-G-X1	M22-DRP-G-X1
◎	●	M22-DP-S-X0	M22-DRP-S-X0
I	●	M22-DP-W-X1	M22-DRP-W-X1
Without	●	M22-DP-S-X	M22-DRP-S-X
Without	●	M22-DP-R-X	M22-DRP-R-X
Without	●	M22-DP-G-X	M22-DRP-G-X
Without	●	M22-DP-Y-X	M22-DRP-Y-X

Selector switch actuators

NEMA 4X, 13
IP 66

ATEX

Front ring black: M22**S**...

⟋ = stay-put ⟋ = spring-return

Function	Rotary button 2 positions	Thumb-grip 2 positions
⟋	M22-W	M22-WK
⟋	M22-WR	M22-WRK
⟋		M22-WKV
	3 positions	**3 positions**
⟋ ⟋	M22-W3	M22-WK3
⟋ ⟋	M22-WR3	M22-WRK3
⟋ ⟋		M22-WRK3-1
⟋ ⟋		M22-WRK3-2
	4 positions	**4 positions**
	M22-WR4	M22-WRK4

Key-operated actuators

NEMA 4X, 13
IP 66

ATEX

Front ring black: M22**S**...

MS1 lock mechanism, 2 positions	MS2-20 lock mechanism, 2 positions
M22-WS	M22-WS-MS*
M22-WRS	M22-WRS-MS*
3 positions	**3 positions**
M22-WS3	M22-WS3-MS*
M22-WRS3	M22-WRS3-MS*
Also available with lock mechanism suitable for master key systems	
Protective diaphragm for use with	
M22-WS ...	M22-XWS






Illuminated push-button actuators

NEMA 4X, 13
IP 67, 69K

ATEX

Front ring black: M22**S**...

Button lens	Actuators flush, spring-return	Actuators flush, stay-put	Actuators extended, spring-return	Actuators extended, stay-put
○	M22-DL-W	M22-DRL-W	M22-DLH-W	M22-DRLH-W
●	M22-DL-R	M22-DRL-R	M22-DLH-R	M22-DRLH-R
●	M22-DL-G	M22-DRL-G	M22-DLH-G	M22-DRLH-G
●	M22-DL-Y	M22-DRL-Y	M22-DLH-Y	M22-DRLH-Y
●	M22-DL-B	M22-DRL-B	M22-DLH-B	M22-DRLH-B
Without	M22-DL-X	M22-DRL-X	M22-DL-X	M22-DRL-X
◎	M22-DL-R-X0	M22-DRL-R-X0	M22-DLH-R-X0	M22-DRLH-R-X0
I	M22-DL-G-X1	M22-DRL-G-X1	M22-DLH-G-X1	M22-DRLH-G-X1
◎	M22-DL-W-X0	M22-DRL-W-X0	M22-DLH-W-X0	M22-DRLH-W-X0
I	M22-DL-W-X1	M22-DRL-W-X1	M22-DLH-W-X1	M22-DRLH-W-X1

Indicator light lens assemblies

NEMA 4X, 13
IP 67, 69K

Flush	Extended, conical ATEX
M22-L-W	M22-LH-W
M22-L-R	M22-LH-R
M22-L-G	M22-LH-G
M22-L-Y	M22-LH-Y
M22-L-B	M22-LH-B
M22-L-X	M22-L-X

Colour Lens, thumb-grip	Colour LED

ATEX

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

Additional order specification "M22-ATEX"







Double actuator

NEMA 4X, 13
IP 67, 69K

ATEX

Front ring black: M22**S**...

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





Illuminated selector switch actuators

NEMA 4X, 13
IP 66

ATEX

Front ring black: M22**S**...

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-WRLK-W	M22-WLK3-W	M22-WRLK3-W	M22-WLKV-W	M22-WKV
●	M22-WLK-R	M22-WRLK-R	M22-WLK3-R	M22-WRLK3-R	M22-WLKV-R	
●	M22-WLK-G	M22-WRLK-G	M22-WLK3-G	M22-WRLK3-G	M22-WLKV-G	
●	M22-WLK-Y	M22-WRLK-Y	M22-WLK3-Y	M22-WRLK3-Y	M22-WLKV-Y	
●	M22-WLK-B	M22-WRLK-B	M22-WLK3-B	M22-WRLK3-B	M22-WLKV-B	

Selector switch actuators

NEMA 4X, 13
IP 66

ATEX

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

2 and 4 positions
IP 66

ATEX

Front ring black: M22**S**...

Function	Part no. Front ring titanium Front ring black
Spring-return	
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

Selector switch actuators

NEMA 4X, 13
IP 66

ATEX

Front ring black: M22**S**...

Function	Rotary button, 4 positions	Thumb-grip 4 positions
	M22-WR4	M22-WRK4



4 position push-button

IP 66

ATEX

Front ring black: M22**S**...

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 selctor 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-*

ATEX

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

Additional order specification "M22-ATEX"









Emergency-Stop actuators

NEMA 4X, 13
IP 66, 69K
ATEX
[1] Pull to release
[2] Turn to release IP 67

Contact elements

IP 20

Function		Tamper proof	Function	Screw terminal	Cage Clamp[3]
Non-illuminated	red	M22-PV[1] M22-PVT[2]	Front fixing	M22-K10	M22-CK10
				M22-K01	M22-CK01
Non-illuminated	black	M22S-PV[1]		M22-K01D	M22-CK01D
illuminated	red	M22-PVL[1] M22-PVLT[2]	Base fixing	M22-KC10	M22-CKC10
illuminated	black	M22S-PVL[1]		M22-KC01	M22-CKC01
With key-telease MS1 individual lock mechanism	red	M22-PVS[1]			
With key-telease MS2-20 individual lock mechanism	red	M22-PVS-MS*[1]			

⊖ = Positive opening safety function to IEC/EN 60947-5-1



Sealable shroud	Protective collar for Emergency-Stop push-buttons	Emergency-Stop labels
M22-PL-PV	M22-XG-PV	see current Industrial Switchgear main catalogue



Adapters

	Screw terminal Cage Clamp[3]	Note
Front fixing	M22-A M22-A4	max. 3 contact elements max. 4 contact elements (only for 4-way switch and Joystick)
Base fixing	Built into the enclosure	max. 3 contact elements







Acoustic indicators

IP 40

Buzzer
24 V AC/DC +10% / -15%

Continuous tone
M22-XAM

Pulsed tone
M22-XAMP

LED elements

IP 20

Compact without buzzer
M22-AMC

		Screw terminal 12-30 V AC/DC	Screw terminal 85-264 V AC	Cage Clamp[3] 12-30 V AC/DC	Cage Clamp[3] 85-264 V AC
Front fixing	white	M22-LED-W	M22-LED230-W	M22-CCLED-W	M22-CLED230-W
	red	M22-LED-R	M22-LED230-R	M22-CCLED-R	M22-CLED230-R
	green	M22-LED-G	M22-LED230-G	M22-CLED-G	M22-CLED230-G
	blue	M22-LED-B	M22-LED230-B	M22-CLED-B	M22-CLED230-B
Base fixing	white	M22-LEDC-W	M22-LEDC230-W	M22-CLEDC-W	M22-CLEDC230-W
	red	M22-LEDC-R	M22-LEDC230-R	M22-CLEDC-R	M22-CLEDC230-R
	green	M22-LEDC-G	M22-LEDC230-G	M22-CLEDC-G	M22-CLEDC230-G
	blue	M22-LEDC-B	M22-LEDC230-B	M22-CLEDC-B	M22-CLEDC230-B

Housing

NEMA 4X, 13
IP 67
[1] ATEX

Addition to ATEX: M22 enclosure ATEX also available as individual unit

Locations	Surface mounting enclosures
1	M22-IY1 M22-IY1-ATEX[1]
1	M22-I1 M22-I1-ATEX[1]
2	M22-I2 M22-I2-ATEX[1]
3	M22-I3 M22-I3-ATEX[1]
4	M22-I4 M22-I4-ATEX[1]
6	M22-I6 M22-I6-ATEX[1]
12	M22-I12
Connecting screw for M22-I...	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

ATEX

"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 ATEX			NEMA 4X, 13 IP 67, 69K tamper proof ATEX		
Mush-room head	**Function**	**Spring-return**	**Mush-room head**	**Function**	**Spring-return**
●	1 Ö	FAK-S/KC11/I	●	1 Ö	FAK-R/V/KC01/IY
●	1 Ö	FAK-R/KC11/I	●	1 Ö	FAK-R/V/KC11/IY
			●	2 Ö	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	
ATEX **Resistance KΩ**	**Part no.** Front ring black: M22**S**...
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











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.

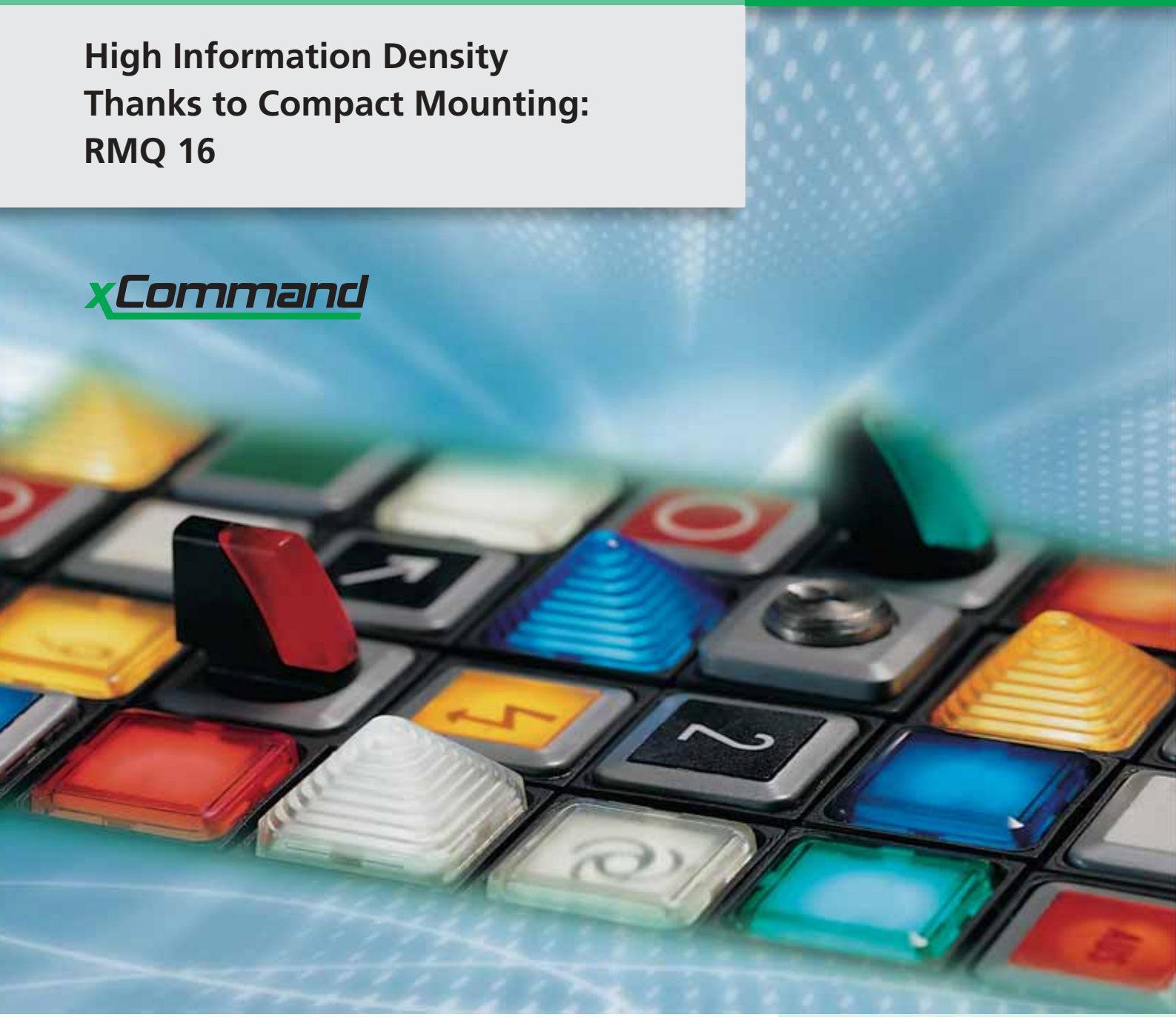


Commissioning with the simulation software MFD-CP4-Simulation is an alternative.

Download free of charge at:
www.moeller.net/fingerprint

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

High Information Density Thanks to Compact Mounting: RMQ 16



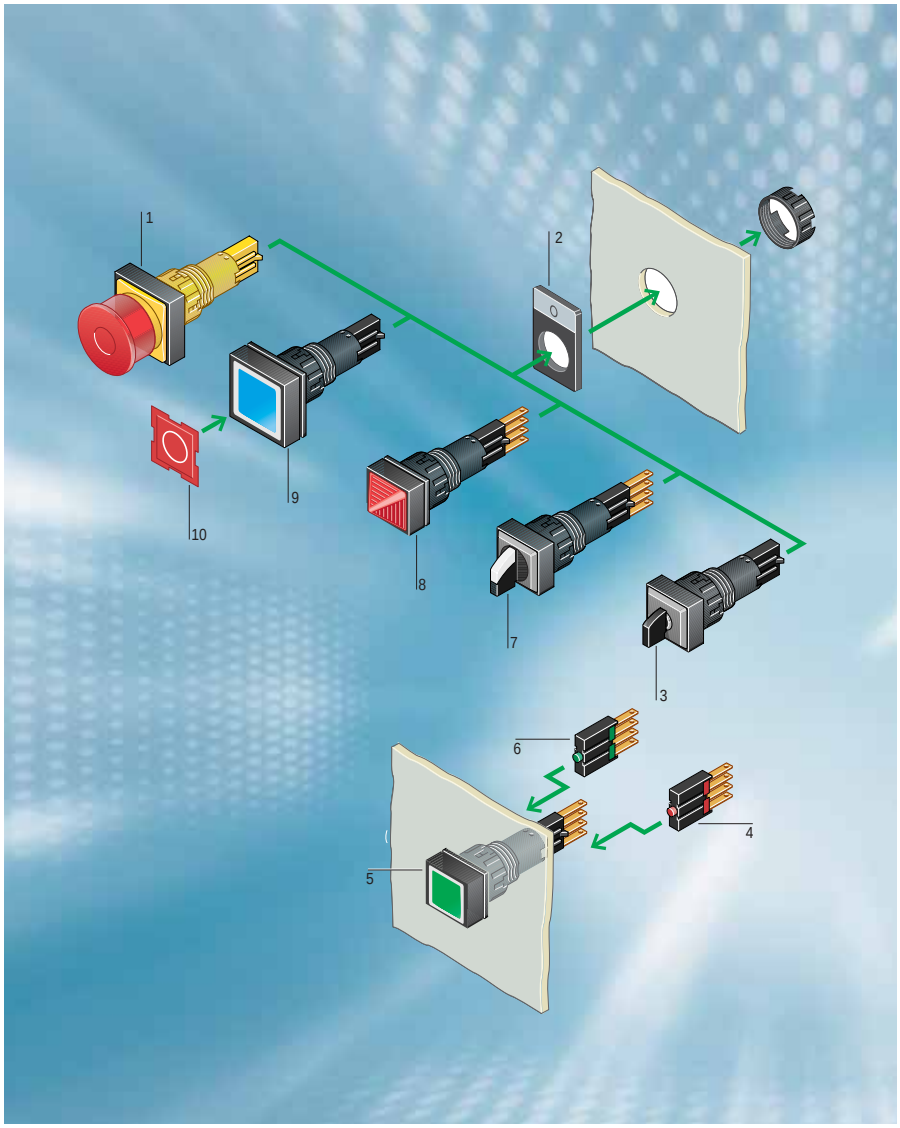
The control panels of modern machines and plants must be able to convey increasingly complex information, even though the available space is limited. The RMQ16 range of compact control circuit devices provides the solution.

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

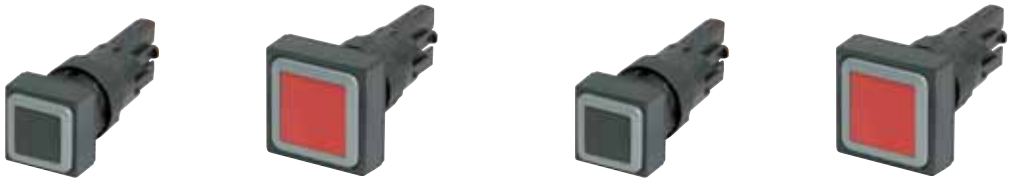


1 Emergency-stop button
2 Base plate
3 Key switch
4 Contact element break (red)
5 Illuminated push button
6 Contact element make (green)
7 Selector switch
8 Indicator light
9 Push-button
10 Button plate/insert label

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
I	Q18D-11	Q25D-11		
o	Q18D-10	Q25D-10		
I	Q18D-20	Q25D-20		
o	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

= Stay-put 45° = Spring-return 45° For further individuel locking arragements please enquire

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




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°






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	Blank
SQ-GE	SR.GE



Housing

IP 65

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



Contact elements

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

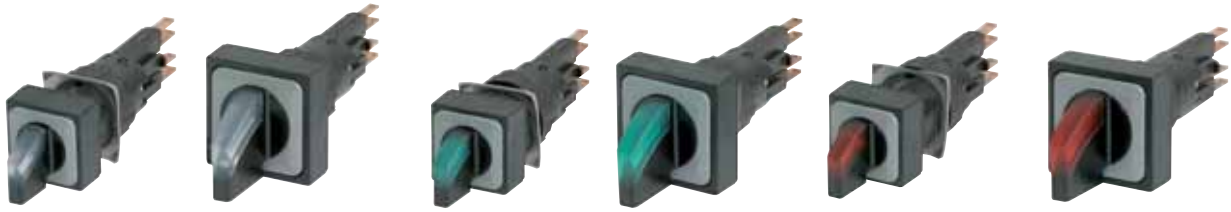
N/O .3 .4	N/C .1 .2 ⊖
E10	E01



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	

Laser inscription

Labelling plates

See Industrial Switchgear Main Catalogue

Additional labelling

	Insert plates	Label mounts, complete
	10 x 22 mm	**25 x 38 mm**
	01SQ25	Q25TS-01
	02SQ25	Q25TS-02
	05SQ25	Q25TGE-05
START	111SQ25	Q25TS-111
STOP	110SQ25	Q25TS-110
O	10SQ25	Q25TS-10
I	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



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 unmistakeably.



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	

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



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