

- They can be used in both building and industrial installations and safety technology
- Modular design with mounting on the rail DIN EN 50 022 - width 35 mm

### **Push-button switches MT2B**

- For switching of up to 4 electric circuits up to 25 A
- The circuit is switched on permanently by upper green push-button, and switched off by lower red push-button
- The installed push-buttons can be replaced

### **Control push-buttons MT**

- They are created by insertion of a push-button T... into the push-button module MT...
- Modular design enables push-button replacement and creation of tens of different variants
- Very simple installation and replacement of the push-buttons by the customer
- For switching of up to 4 electric circuits up to 25 A

### Control push-buttons with light indication MT11N, MT22X

- They are created by insertion of a push-button T... and an indicator light S... into the push-button module MT11N or MT22X
- Modular design enables replacement of the push-button and indicator light and creation of tens of different variants

- Very simple installation and replacement of the push-button and indicator light by the customer
- For signalling and switching of up to 4 electric circuits up to 25 A

### Control push-button with signal light MT20S

- It is created by insertion of a push-button T... and an indicator light S... into the push-button module MT20S
- Modular design enables replacement of the push-button and indicator light and creation of tens of different
- Very simple installation and replacement of the push-button and indicator light by the customer
- For signalling and switching of up to 4 electric circuits up to 25 A
- Signal light separate lighting circuit

### **Double control push-button M2T11-11**

- It is created by insertion of two push-buttons T... into the push-button module M2T11-11
- Modular design enables push-button replacement and creation of tens of different variants
- Very simple installation and replacement of the push-buttons by the customer
- For switching of two independent electric circuits up to 25 A



**Push-button switches** 

Contact	Туре	Product	Weight	Packing
sequence 1)		code	[kg]	[pcs]
11	MT2B11	11136	0.12	12
22	MT2B22	11139	0.12	12
40	MT2B40	11138	0.12	12

<sup>1)</sup> Each digit indicates successively the number of make and break contacts

### **Accessories to MT2B**

Labels	PLSN	page 25
Push-buttons	T	page 87



## **Control push-button modules**

Contact	Туре	Product	Weight	Packing
sequence 1)		code	[kg]	[pcs]
10	MT10	08623	0.1	12
01	MT01	08622	0.1	12
11	MT11	08624	0.1	12
22	MT22	08951	0.1	12
31	MT31	08625	0.1	12

<sup>1)</sup> Each digit indicates successively the number of make and break contacts

### **Accessories to MT**

Labels	PLSN	page 25
Push-buttons	Т	page 87





## Modules of control push-buttons with light indication

Connector	Contact	Туре	Product	Weight	Packing
for indicator light 1)	sequence 2)		code	[kg]	[pcs]
Between contact and terminal	11	MT11N	08626	0.09	12
Between contacts	22	MT22X	08628	0.09	12

### Accessories to MT11N, MT22X

Labels	PLSN	page 25
Push-buttons	Т	page 87
Indicator lights	S	page 87



## Module of control push-buttons with signal light

Contact	Туре	Product	Weight	Packing
sequence 1)		code	[kg]	[pcs]
20	MT20S	08627	0.09	12

<sup>1)</sup> Each digit indicates successively the number of make and break contacts

### **Accessories to MT20S**

Labels	PLSN	page 25
Push-buttons	Т	page 87
Indicator lights	S	page 87



## Module of double control push-buttons

Contact	Туре	Product	Weight	Packing
sequence 1)		code	[kg]	[pcs]
11-11	M2T11-11	11140	0.09	12

 $<sup>^{\</sup>mbox{\scriptsize 1)}}$  Each digit indicates successively the number of make and break contacts

### Accessories to M2T11-11

Labels	PLSN	page 25
Push-buttons	T	page 87

<sup>&</sup>lt;sup>1)</sup> See the schematic symbol <sup>2)</sup> Each digit indicates successively the number of make and break contacts



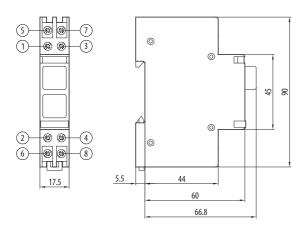
## **Specification**

Туре			MT2B	MT	MT11N, MT22X	MT20S	M2T11-11
Standards			EN 60 947-5-1	EN 60 947-5-1	EN 60 947-5-1	EN 60 947-5-1	EN 60 947-5-1
Approval marks				E	(€ W		
Contacts							
Sequence 1)			11, 22, 40	10, 01, 11, 22, 31	11, 22	20	2x 11
Rated operating voltage		U <sub>e</sub>	230/400 V a.c./220 V d.c.	230/400 V a.c./220 V d.c.	230/400 V a.c./220 V d.c.	230/400 V a.c./220 V d.c.	230/400 V a.c./220 V d.c.
Rated thermal current		I <sub>th</sub>	25 A	25 A	25 A	25 A	25 A
Rated operating current	AC-12	l <sub>e</sub>	25 A	25 A	25 A	25 A	25 A
	AC-15	l <sub>e</sub>	6 A	6 A	6 A	6 A	6 A
	DC-12	١	1 A	1 A	1 A	1 A	1 A
Endurance			30 000 operating cycles	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles
Connection			$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5)\text{mm}^2$	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$
Light signalling							
Power			-	-	0.8 W	0.8 W	-
Rated voltage			-	-	24 V a.c./d.c., 230 V a.c., 220 V d.c.	24 V a.c./d.c., 230 V a.c., 220 V d.c.	-
Colour			-	-			-
Light			-	-	permanent, flashing	permanent, flashing	-
Source			-	-	LED	LED	-
Dispersion			-	-	by raster in front of LED	by raster in front of LED	-
Connection			-	-	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$	$0.75 \div 6 \text{ mm}^2$ , $2x(0.75 \div 2.5) \text{ mm}^2$	-
Push-buttons							
Colour							
Other data							
Mounting on the rail DIN EN	50 022 - wid	th	35 mm	35 mm	35 mm	35 mm	35 mm
Degree of protection			IP20	IP20	IP20	IP20	IP20
Ambient temperature			-25 ÷ +55 ℃	-25 ÷ +55 ℃	-25 ÷ +55 ℃	-25 ÷ +55 ℃	-25 ÷ +55 ℃
Seismic immunity (8÷50 l	Hz)		3 g	3 g	3 g	3 g	3 g
Operating position			arbitrary	arbitrary	arbitrary	arbitrary	arbitrary

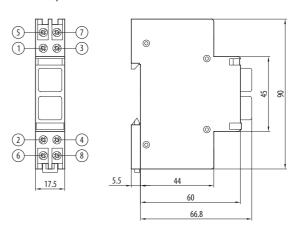
<sup>1)</sup> Each digit indicates successively the number of make and break contacts

## **Dimensions**

MT, MT11N, MT22X, MT20S

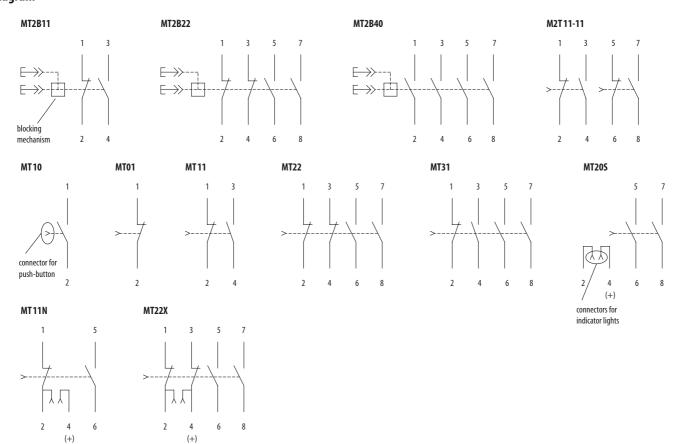


## MT2B, M2T11-11





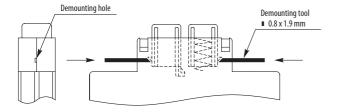
## Diagram



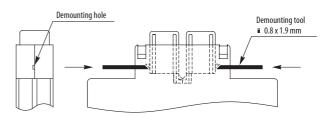
## **Demounting**

■ Demounting of push-button switches MT2B...

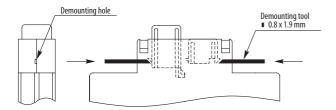
At replacement of the push-button under which there is a spring it is necessary to cut the boss off the new push-button, and only after it to install it in the module



■ Demounting of double control push-buttons (M2T11-11 + push-buttons)



 Demounting of control push-buttons (MT..), control push-buttons with indication (MT..N, MT..X + indicator light)





# **LOCKING INSERT, LABELS**





### **Locking insert VU-LSN**

- Accessories to: LSN, LSE, ASN, MS
- For reliable locking in both closed and open positions
- The breaking function of miniature circuit breakers is possible also in the locked position
- Max. diameter of the lock shank 4.5 mm
- The padlock is not a part of delivery

### Label P...-LSN

- Accessories to: LSN, ASN, MS, MT, MK, M2T, MCR, IR116K, C-IR, D-IR, PR116, PR208, . . .
- For better orientation in the switchboard
- Use spirit marker for description of blank labels

## **Locking insert**

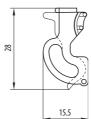
Type	Product	Weight	Packing
	code	[kg]	[pcs]
VU-LSN	09087	0.002	1

### Labels

Description	Colour	Туре	Product	Weight	Packing
			code	[kg]	[pcs]
		PB-LSN	01499	0.001	20
L1		PB07-LSN	01506	0.001	20
L2		PB08-LSN	01507	0.001	20
L3		PB09-LSN	01508	0.001	20
		PW-LSN	01509	0.001	20

## **Dimensions**

### VU-LSN



## **INDICATOR LIGHTS AND PUSH-BUTTONS**

### Indicator lights S...

- They are designed for signalling after insertion into the modules MS..N, MS..X, MT11N, MT22X, MT20S, MK1, MK2
- Indicator light power: 0.8 W
- Indicator light contains a LED

### Push-buttons T...

■ They are designed control after insertion into the modules MT2B..., MT..., MT11N, MT22X, MT20S, M2T11-11



Colour	Light <sup>1)</sup>	Voltage [\	Voltage [V]		Product	Weight	Packing
		AC	DC		code	[kg]	[pcs]
	permanent	230	-	SC/230	11102	0.003	12
(red)		24	24	SC/24	11106	0.003	12
	flashing	230	220	SPC/230	11110	0.003	12
		24	24	SPC/24	11118	0.003	12
(green)	permanent	230	-	SE/230	11103	0.003	12
		24	24	SE/24	11107	0.003	12
	flashing	230	220	SPE/230	11111	0.003	12
		24	24	SPE/24	11119	0.003	12
(yellow)	permanent	230	-	SD/230	11104	0.003	12
		24	24	SD/24	11108	0.003	12
	flashing	230	220	SPD/230	11112	0.003	12
		24	24	SPD/24	11120	0.003	12
□ (white)	permanent	230	-	SG/230	11101	0.003	12
		24	24	SG/24	11105	0.003	12
	flashing	230	220	SPG/230	11109	0.003	12
		24	24	SPG/24	11117	0.003	12

<sup>1)</sup> Flashing indicator lights are identified by "\*" on the front face



### **Push-buttons**

Colour	Туре	Product	Weight	Packing
		code	[kg]	[pcs]
■ (black)	TB	08932	0.002	12
(red)	TC	08930	0.002	12
(yellow)	TD	08933	0.002	12
(green)	TE	08931	0.002	12
(blue)	TF	08935	0.002	12
☐ (white)	TG	08934	0.002	12

## **Diagram**

## Indicator light

### **Push-button**





## Meaning of push-button and indicator light colours at coding - general principles 2)

Colou	ır	Safety of personnel or environment	Operating conditions	Equipment condition		
	(red)	danger	emergency	without a general meaning		
	(yellow)	warning	extraordinary	without a general meaning		
	(green)	safe condition	normal	without a general meaning		
	(blue)	special meaning - an order	special meaning - an order	without a general meaning		
	(white)					
	(grey)	without a special meaning				
	(black)					

<sup>2)</sup> According to EN 60 073