



General Data

Type Reference:	MT...
Description:	Modular Contact Block
Approvals:	CCC, CSA, ENEC05, KEMA, CE, TÜV_Süd, UL
Protection class:	II (protective insulation)
Operation travel:	6 mm
Connection type:	screw connection 2x2.5mm ²
Contact material:	AgNi
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 85°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LEDs
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 20 mOhm
Contact resistance NC:	< 20 mOhm
Min. current:	1 mA (under laboratory conditions)
Min. voltage:	5 V
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC15 A600	DC13 Q600
Rated insulation voltage Ui:	600 V	600 V
Rated operating voltage Ue:	240V / 440V	440V / 250V / 125V / 60V / 24V
Rated operating current Ie:	3A / 1.6A	0.12A / 0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	16 A	

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage Ue:	250 V~ / 440 V~
Rated current Ie:	16(10) A / 10(6) A

Technical Data - Lamp

Lamp socket:	BA9s
Max. lamp voltage:	250 V / (CSA max. 150V)
Max. lamp output:	2 W
Definition:	X1...anode, X2...cathode

Electrical Features - 5µm gold-plating, type addition ...AU

Switching voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm

General Data

Tightening torque (screw terminal):	0.8...1.0 Nm
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Note

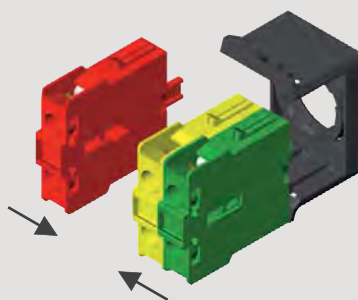
Min. operating temperature when assembled with KRJ...actuators: -40°C ...;
Data Sheet does not apply to the following type: MTOSFE

Electrical Data acc. to UL 508

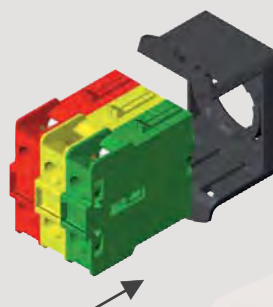
Ratings:	A600, 600 V AC
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Mounting Instructions

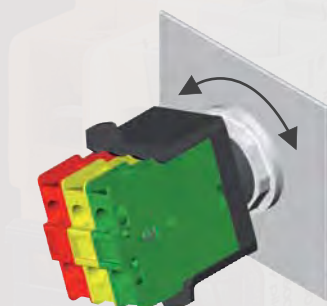
1.



2.



3.



4.

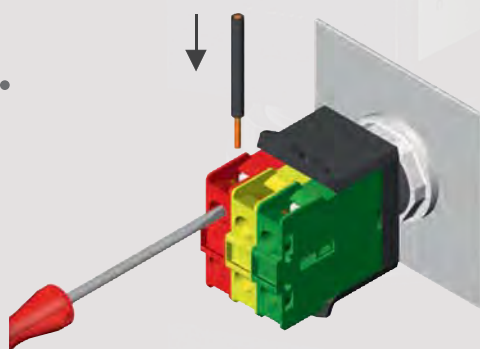


Illustration	Description	Type
 6 mm 0 1 2 3 4 5 6 7 .1/.2 .1 .2	Modular Contact, momentary 1NC screw connection 2x2.5mm² suitable actuators contact material AgNi	MTO
 6 mm 0 1 2 3 4 5 6 7 .5/.6 .5 .6	Modular Contact, momentary 1NC late break screw connection 2x2.5mm² suitable actuators contact material AgNi	MTON
 6 mm 0 1 2 3 4 5 6 7 .3/.4 .3 .4	Modular Contact, momentary 1NO screw connection 2x2.5mm² suitable actuators contact material AgNi	MTI
 6 mm 0 1 2 3 4 5 6 7 .7/.8 .7 .8	Modular Contact, momentary 1NO early make screw connection 2x2.5mm² suitable actuators contact material AgNi	MTIV
 6 mm 0 1 2 3 4 5 6 7 .7/.8 .3/.4 D .7 .8 .3 .4	Modular Contact, momentary 1NO + 1NO early make screw connection 2x2.5mm² with action point after the early make contact closes suitable actuators contact material AgNi	MT97
 6 mm 0 1 2 3 4 5 6 7 .1/.2 0 1 2 3 4 5 6 7 .6/.8 0 1 2 3 4 5 6 7 .4/.3 .1 .2 .6 .8 .4 .3	Modular Contact 1NC + 1NO + 1centre contact screw connection 2x2.5mm² - to be used with 3-position actuators with 1 plunger - one contact is closed in each position - no contact overlapping contact material AgNi	MHW3I
 6 mm 0 1 2 3 4 5 6 7 .3/.4 D .3 .4 .1 .2 .3 .4	Modular Contact, momentary, with real enabling function 1 permissive contact (1NC + 1NO) screw connection 2x2.5mm² 3-position enabling contact block acc. to EN 60947-5-8 suitable actuators contact material AgNi	MTZU

Contact Blocks

screw connection 2x2.5mm²

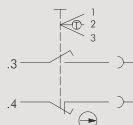
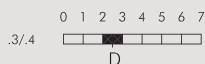
made in germany



Illustration

Description

Type



Modular Contact with real enabling function (usable with module holder MHR5 for 2 channels)

1 permissive contact (1NC + 1NO)

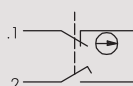
screw connection 2x2.5mm²

3-position enabling contact block acc. to EN 60947-5-8

two MTZU_564 and one MHR5 are required for 2 channels

contact material AgNi

MTZU_564



Self-monitoring Emergency Contact Block, requires only one place in the module holder

screw connection 2x2.5mm²

The safety contact permanently monitors the proper connection between the emergency-stop button and the contact element. If, due to a negligent assembly or mechanical damage, the emergency-stop button is separated from the contact element, the safety contact disconnects immediately and the machine is stopped.

suitable actuators



contact material AgNi

MTOSFE



Latch-type Module

screw connection 2x2.5mm²

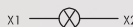
when used as center element in the module holder it provides a maintained unit with the adjacent momentary-type modules

suitable actuators



colour grey

MF



Latch-type Lamp Module

screw connection 2x2.5mm²

max. 250V 2W

lamp socket BA9s

suitable actuators



colour yellow/grey

MFL



Lamp Module

screw connection 2x2.5mm²

max. 250V 2W

lamp socket BA9s

suitable actuators/pilot light heads



colour yellow

ML



Connection Module

screw connection 2x2.5mm²

serves to connect the illuminated emergency stops via a screw terminal. The connection module is snapped into the module holders MHR_3 or MHR_5 12-30V, AC/DC, max. 44mA

suitable actuators



colour white

MAL

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Illustration

Description

Type



120V Lamp Module

screw connection 2x2.5mm²
with ultra-bright LED, finger-protected screw connections and integrated bridge rectifier.
- operating temperature: -25...70 °C
- protection degree acc. to IEC/EN 60529: IP20

for 12-120V AC/DC, 8-12mA

suitable actuators/pilot light heads



LED colour white

MLED12-120W



24V Lamp Module

screw connection 2x2.5mm²
with ultra-bright LED, finger-protected screw connections and integrated bridge rectifier.
- operating temperature: -25...70 °C
- protection degree acc. to IEC/EN 60529: IP20

- approvals: cCSAus, CE, GOST-R

for 18-30V AC/DC, 8-14mA

suitable actuators/pilot light heads



LED colour white

MLED24W



24V Latch-type Lamp Module

screw connection 2x2.5mm²
similar to MLED24... but with latching function

suitable actuators/pilot light heads



LED colour white

MFLED24W



230V Lamp Module

screw connection 2x2.5mm²
with ultra-bright LED, finger-protected screw connections and integrated bridge rectifier.
- operating temperature: -25...70 °C
- protection degree acc. to IEC/EN 60529: IP20

- approvals: cCSAus, CE, GOST-R

for 230V AC, 16mA (50Hz)

suitable actuators/pilot light heads



LED colour white

MLED230W



230V Latch-type Lamp Module

screw connection 2x2.5mm²
similar to MLED230...but with latching function

suitable actuators/pilot light heads



LED colour white

MFLED230W

Contact Blocks

screw connection 2x2.5mm²

made in germany



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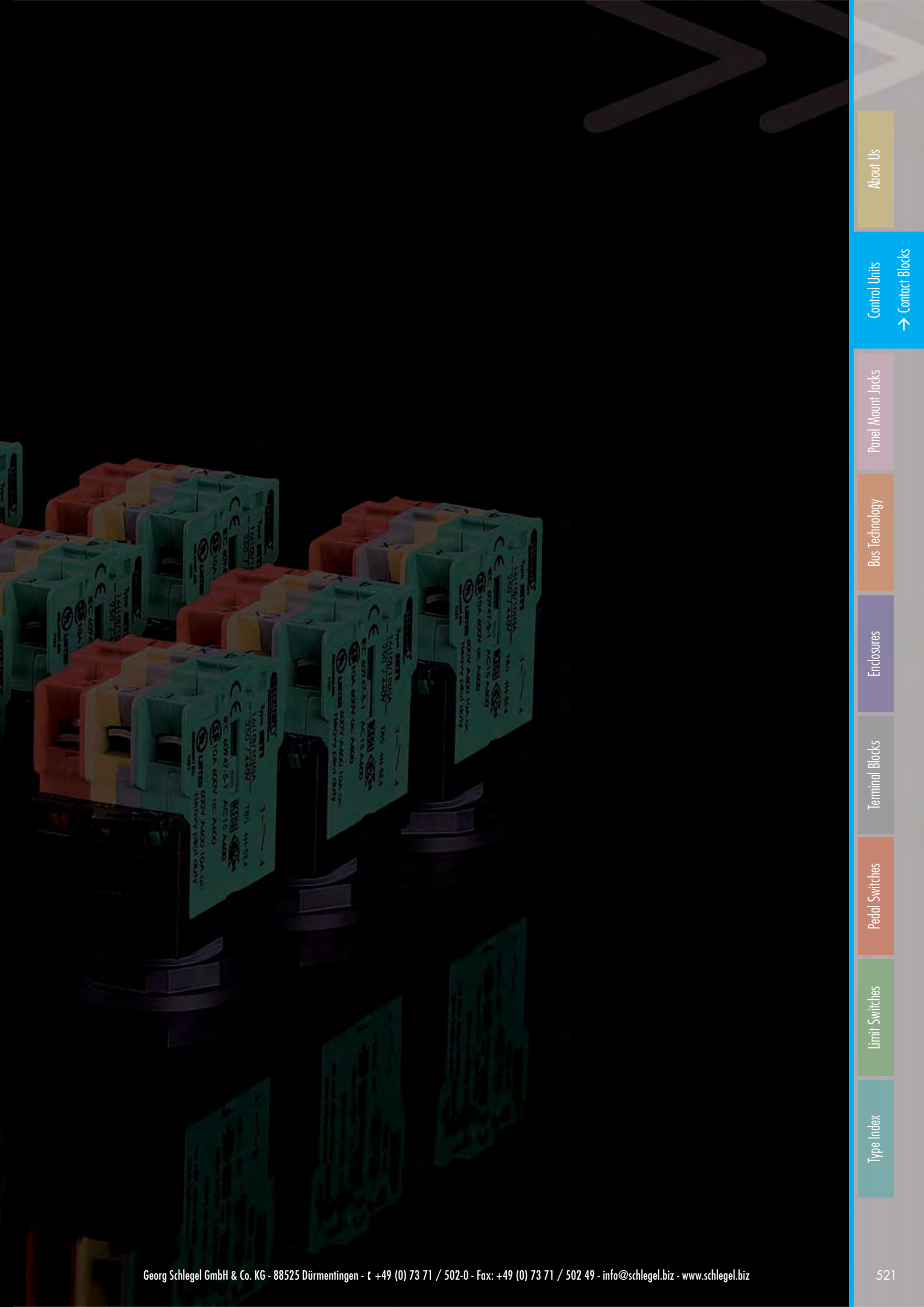
Terminal Blocks

Pedal Switches

Limit Switches

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Illustration	Description	Type
	Module Holder for 3 elements with bayonet mount, to combine the modular contacts with the actuators	MHR_3
	Module Holder for 5 elements with bayonet mount, to combine the modular contacts with the actuators	MHR_5
	Ultra-bright LED, BA9s socket with integrated bridge rectifier for 24V AC/DC, 15mA colour white	LD9-24UW
	Mega-bright LED, BA9s with integrated bridge rectifier for 24V .. 28V AC/DC, 15.5mA (typ. 24V) colour white	LD9-24MW
	Ultra-bright LED, BA9s with integrated single-wave rectifier for 230V AC, 3mA colour white	LD9-230UW
	Flashing LED, BA9s for 24V colour green red yellow	LB9-24G LB9-24R LB9-24Y



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