



General Data

Type Reference:	DSTI, DSTO
Description:	Modular Contact Block (positive opening contact), PUSH-IN connection
Approvals:	CCC, cCSAus, CE, KEMA KEUR, TÜV_Süd
Protection class:	II (protective insulation)
Operation travel:	5 mm
Connection type:	push-in connection/0.75 ... 2.5 mm ²
Contact material:	AgNi
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-25°C ... 55°C, with/without illumination
Mechanical life:	200,000
Electrical life (rated load):	100,000 at rated load
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
Min. current:	5 mA (under laboratory conditions)
Min. voltage:	24 V
Bouncing time NO:	< 10 ms
Bouncing time NC:	< 10 ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

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

Utilisation category:	alternate current	direct current
Rated insulation voltage Ui:	AC15 A600	DC13 Q300
Rated operating voltage Ue:	600 V	400V
Rated operating current Ie:	240V / 380V	250V / 125V / 60V / 24V
Breaking capacity:	3A / 1.9A	0.27 A / 0.55 A / 1 A / 2 A
Continuous thermal current:	10Ie	1,1Ie
	16 A	

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

Rated voltage Ue:	250 V~ / 400 V~
Rated current Ie:	16(10) A / 10(5) A

Technical Data - Lamp

Lamp socket:	BA9s
Max. lamp voltage:	250V
Max. lamp output:	2 W
Definition:	X1...anode, X2...cathode

Electrical Features

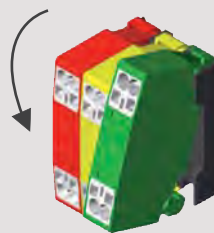
Switching voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm

Note

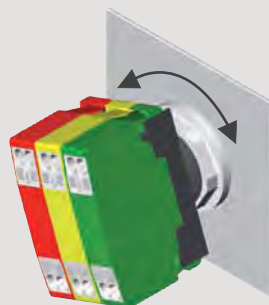
Min. operating temperature when assembled with KRJ...actuators: -40°C...

Mounting Instructions

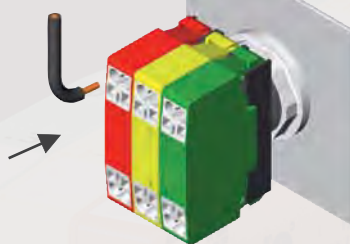
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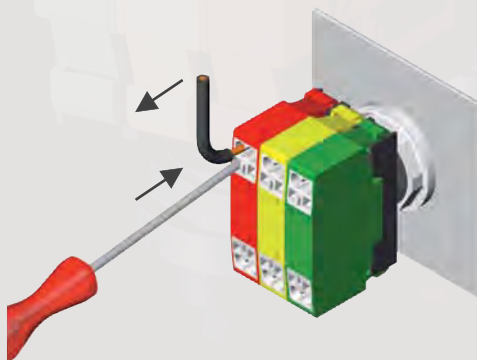
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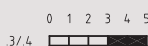
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Illustration

Description

Type



Modular Contact Block , momentary 1NO

push-in connection/0.75 ... 2.5 mm²

suitable actuators



contact material AgNi

DSTI



Modular Contact Block , momentary 1NC

push-in connection/0.75 ... 2.5 mm²

suitable actuators



contact material AgNi

DSTO



Lamp Module

push-in connection/0.75 ... 2.5 mm²

max. 250V 2W

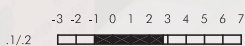
lamp socket BA9s

suitable actuators/pilot light heads



colour yellow

DSL9



Self-monitoring Emergency Contact Block, requires only one place in the module holder 1NC (+ 1NO)

push-in connection/0.75 ... 2.5 mm²

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.

contact material AgNi

DSTOSDE

Connection Module

push-in connection/0.75 ... 2.5 mm²

serves to connect the illuminated emergency-stop actuators via push-in connection.

The DSAL module is snapped into the module holder DMR.

12-30V, AC/DC, max. 44mA

colour white

DSAL

Module Holder for 3 modules

DMR

with bayonet, to combine the modular contact blocks with the actuators

Ultra-bright LED, BA9s socket

with integrated bridge rectifier for 24V

AC/DC, 15mA

colour white

LD9-24UW

Contact Blocks

push-in connection/0.75 ... 2.5 mm²



Illustration

Description

Type



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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General Data

Type Reference:	DT...
Description:	Modular Contact Block, with Cage-Clamp technology
Approvals:	CCC, cCSAus, ENEC10, VDE, CE, GL, KEMA KEUR, TÜV_Süd
Protection class:	II (protective insulation)
Operation travel:	6 mm
Connection type:	Cage-Clamp 0.08-2.5 mm ²
Contact material:	AgNi
Max. storage temperature:	-40°C ... 70°C
Max. operating temperature:	-25°C ... 55°C, with/without illumination
Mechanical life:	1 m switching cycles
Electrical life (rated load):	50,000
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
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)

Utilisation category:	alternate current	direct current
Rated insulation voltage Ui:	AC15 A600	DC13 Q300
Rated operating voltage Ue:	600 V	400V
Rated operating current Ie:	240V / 380V	250V / 125V / 60V / 24V
Breaking capacity:	3A / 1.9A	0.27 A / 0.55 A / 1 A / 2 A
Continuous thermal current:	10Ie	1,1Ie
	16 A	

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

Rated voltage Ue:	250 V~ / 400 V~
Rated current Ie:	16(10) A / 10(5) A

Technical Data - Lamp

Lamp socket:	BA9s
Max. lamp voltage:	250V
Max. lamp output:	2 W
Definition:	X1...anode, X2...cathode

Electrical Features

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

Environmental / Climatic Tests

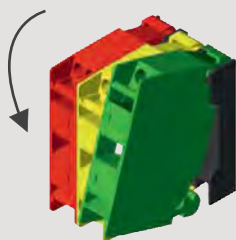
Vibration resistance:	50m/s ² at 5-150Hz according to DIN IEC 68 2-6
Shock resistance:	30m/s ² at 50ms acc. to DIN IEC 68 2-27
Constant climatic resistance:	IEC 600-68-2-3 and 2-30

Note

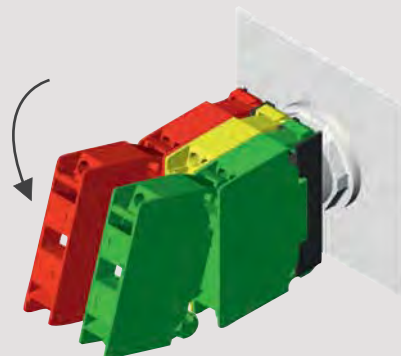
- When combining the DT... contact blocks with key actuators, selector and toggle heads, add the type code ..._497 to the actuator type reference!
- Min. operating temperature when assembled with KRJ...actuators: -40°C ...
- The use of wire end ferrules is basically possible but not necessary.

Mounting Instructions

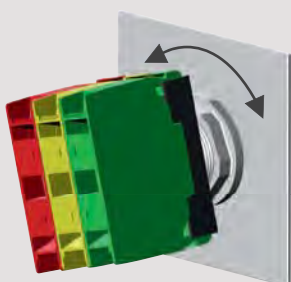
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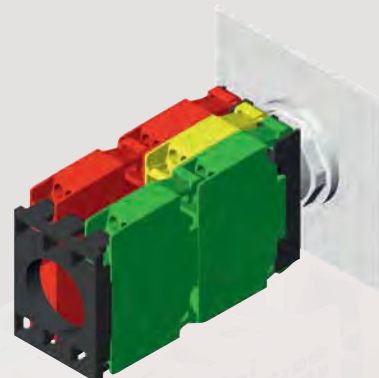
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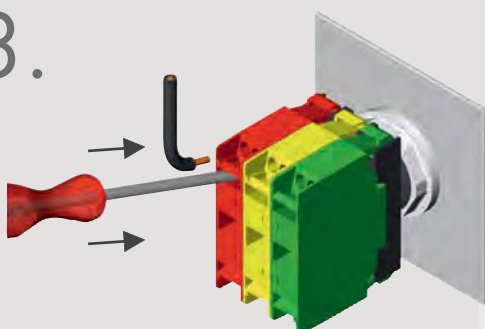
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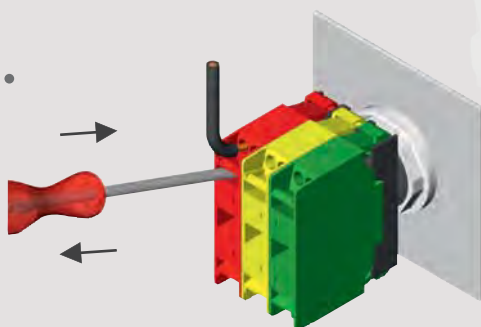
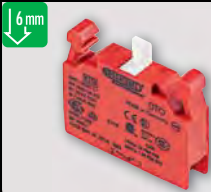
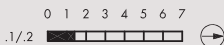
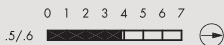
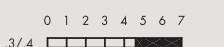
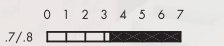
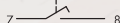
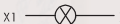
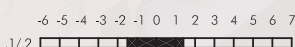


Illustration	Description	Type
  	Modular Contact Block, momentary 1NC Cage-Clamp 0.08-2.5 mm ² suitable actuators  contact material AgNi	DTO
  	Modular Contact Block, momentary 1NC late break Cage-Clamp 0.08-2.5 mm ² suitable actuators  contact material AgNi	DTON
  	Modular Contact Block, momentary 1NO Cage-Clamp 0.08-2.5 mm ² suitable actuators  contact material AgNi	DTI
  	Modular Contact Block, momentary 1NO early make Cage-Clamp 0.08-2.5 mm ² suitable actuators  contact material AgNi	DTIV
 	Lamp Module Lampholder Cage-Clamp 0.08-2.5 mm ² max. 250V 2W lamp socket BA9s suitable actuators/pilot light heads  colour yellow	DL
  	Self-monitoring Emergency Contact Block, momentary* 1NC (+ 1NO) Cage-Clamp 0.08-2.5 mm ² *) 1 NC, 1NO and 1 safety contact consisting of 1 emergency NC connected in series to 1 NO which is always closed during operation and disconnects automatically on separation of the actuator from the modular contact. suitable actuators  contact material AgNi	DMTOSFA
	Dummy Module used in case of several levels to fill the positions not occupied colour grey	DB

Contact Blocks

Cage-Clamp 0.08-2.5 mm²

made in germany



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	Module Holder for modules from second level on	DMA
	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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