

DX³ Signalling Auxiliary Contact (CA and SD)

Cat. N° (s): 4 062 58, 60, 62, 66, 67



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1. DESCRIPTION - USE

. Auxiliary contact (CA): Changeover switch indicates contacts position (open or closed) of the associated device (circuit breaker or switch, differential or not).
Fault signalling contact (SD): Changeover switch indicates fault tripping of the associated device (circuit breaker or switch, differential or not).

Symbol:

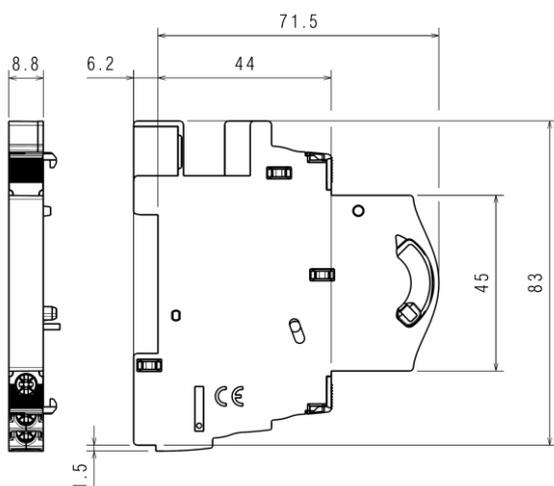


2. RANGE

- . Cat. n° 4 062 58 : auxiliary changeover switch (CA).
- . Cat. n° 4 062 60 : fault signalling changeover switch (SD).
- . Cat. n° 4 062 62 : auxiliary changeover switch (CA) modifiable into a fault signalling changeover switch (SD).
- . Cat. n° 4 062 66 : auxiliary changeover switch (CA) + fault signalling changeover switch (SD) modifiable into 2 auxiliary changeover switch (2CA).
- . Cat. n° 4 062 67 : auxiliary contact with early closing (CA).

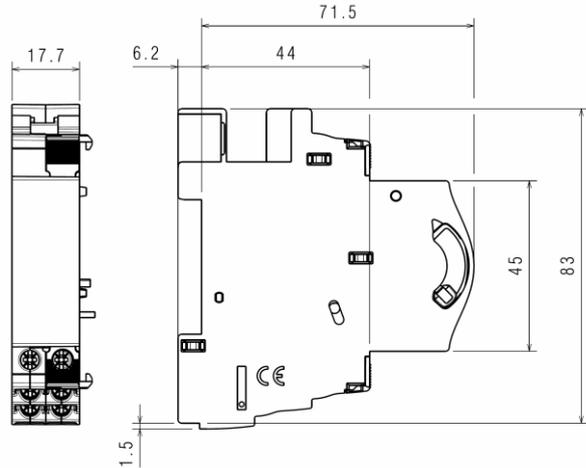
3. OVERALL DIMENSIONS

. 0,5 module width: Cat. n° (s) 4 062 58 / 60 / 62.

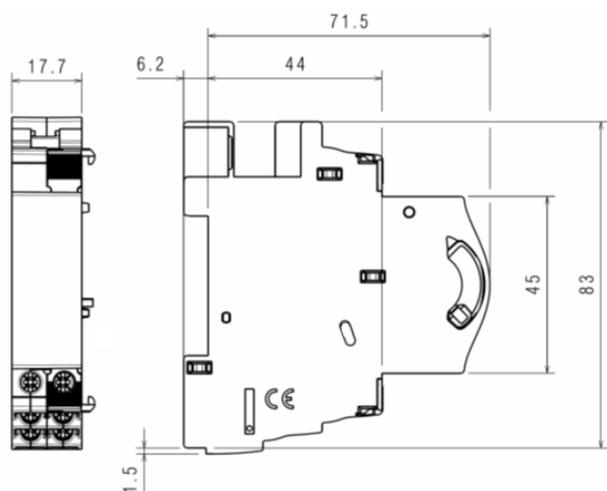


3. OVERALL DIMENSIONS

. 1 module width: Cat. n° (s) 4 062 66.



. 1 modules width: Cat. n° (s) 4 062 67.



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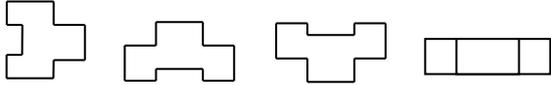
4. PREPARATION -CONNECTION

Fixing:

. On symmetric rail EN/IEC 60715 or DIN 35 rail, by the device which is associated.

Operating positions:

. Vertical, Horizontal, Upside down, On the side



Power Supply:

. Only from the bottom.

Terminals:

. Terminal depth: 8 mm.
. Stripping length: 8 mm

Screw head:

. Mixed, slotted and Pozidriv n° 1 (UNI7596 type Z1).

Recommended tightening torque:

. 1 Nm.

Recommended tools:

. For the terminals: Pozidriv n° 1 or flat screwdriver 4 mm.
. For the CA/SD selector: flat screwdriver 4mm.

Conductor type:

	Copper cable	
	Without ferrule	With ferrule
Rigid Cable	1 x 0,5 mm ² to 1,5 mm ² 2 x 1,5 mm ²	-
Flexible Cable	1 x 0,5 mm ² to 1,5 mm ² 2 x 1,5 mm ²	1 x 0,5 mm ² to 1,5 mm ² 2 x 1,5 mm ²

Manual action of the CA or SD:

. By the handle of the associated device.

Visualization:

. By mechanical indicator on front face.
. Cat. n° (s) 4 062 58, 406 262 et 406 266 with the selector in "CA" position:
- Red : indicates that the contacts position of the device (MCB, IS, RCCBO,RCCB) which the auxiliary is associated.
- Transparent : indicates the ON position of the contacts of the associate device (MCB, IS, RCCBO,RCCB) which the auxiliary is associated.
. Cat. n° (s) 4 062 60, 4 062 62 and 4 062 66 with the selector in "SD" position:
- Red: indicates that the associated device (MCB, RDC, RCCB) which the auxiliary is associated, has tripped on fault (overload, short-circuit, differential default) or tripping by control auxiliary "MT" or "DA".
- transparent : indicates that the associate device (MCB, IS, RCBO,RCCB) which the auxiliary is associated, has the contacts closed (ON) or open (OFF) by a manual operation on the associated device.

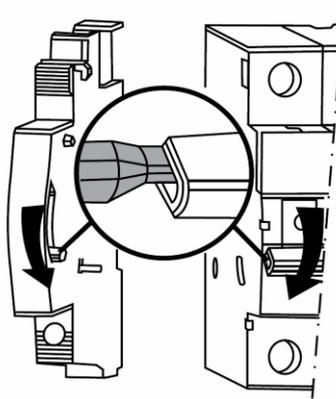
4. PREPARATION -CONNECTION (continued)

CA/SD Selector:

. On the auxiliaries cat n° (s) 4 062 62, 266, the selector allows to turn a contact in a "CA" or "SD" contact. The selector can be operated with a 3,5 to 4 mm flat screwdriver.

Assembling:

. On the left side of Legrand MCB, IS, RCBO or RCCB
. No tools are required. Clipped by mean of plastic clamps on the associated device.
. Assembling products in OFF position
. The switching device of signalling auxiliaries must fit into the housing of the handle of the associated device.



List of allowed associations (General rules):

Three auxiliaries maximum which:
- two signalling auxiliaries (Cat. n° (s) 4 062 58, 60, 62, 66).
- Only one control auxiliary (Cat. n° (s) 4 062 76, 78, 80, 82, 84).
. If signalling and control auxiliaries are associated on the same circuit breaker, the command auxiliary must be placed to the left of the signal auxiliary (ref. 4 062 5x / 6x).
. For devices 1,5 modules per pole width:
If a Remote tripping auxiliary is already mounted on this kind of device, current shunt trips (4 062 76/78), under-voltage releases (4 062 80/82, autonomous shunt trip for N/C push-button (4 062 87) or power overvoltage protection (POP) (4 062 86) then only 1 module signalling auxiliaries can be added (auxiliary + fault signalling contact or auxiliary contact + auxiliary contact 4 062 66). In this set up the ½ module signalling auxiliaries will not operate.
Nothing changes for the other modular references.

List of allowed associations (Particular rules):

. With an isolating switch DX³-IS:
- only one signalling auxiliary CA type (Cat. n° (s) 4 062 58, 66).
. With a remote trip head isolating switch DX³-IS, three auxiliaries maximum which:
- one or two signalling auxiliaries CA type (Cat. n° (s) 4 062 58, 66).
- one control auxiliary cat n° (s) 4 062 7x / 8x.
. With a MCB, IS, RCBO,RCCB three auxiliaries maximum which:
- one or two signalling auxiliaries, CA or SD type (Cat. n° (s) 4 062 58, 60, 62, 66).
- one control auxiliary Cat. n° (s) 4 062 7x / 8x.

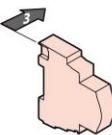
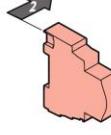
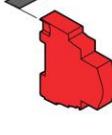
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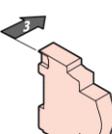
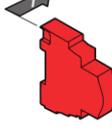
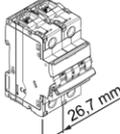
4. PREPARATION –CONNECTION (continued)

Combination tables of the auxiliaries:

. For devices 1 module per pole width:

			
			17,5 mm
		4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 / 67 / 76 / 78 / 80 / 82 / 84 / 86 / 87 4 149 29	
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 76 / 78 / 80 / 82 / 84 / 86 / 87	4 062 .. 50 / 52 / 56 / 58 / 60 / 62	
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 / 76 / 78 / 80 / 82 / 84 / 86 / 87	4 062 .. 64 / 66	
4 062 .. 76 / 78 / 80 / 82 / 84 / 86 / 87	4 062 .. 50 / 52 / 56 / 58 / 60 / 62	4 062 .. 50 / 52 / 56 / 58 / 60 / 62	
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66	4 062 .. 64 / 66	

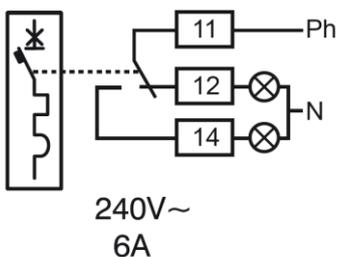
. For devices 1,5 modules per pole width:

			
			26,7 mm
		4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 / 67 / 76 / 78 / 80 / 82 / 84 / 86 / 87 4 149 29	
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62	4 062 .. 50 / 52 / 56 / 58 / 60 / 62	
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 / 76 / 78 / 80 / 82 / 84 / 86 / 87	4 062 .. 64 / 66	
4 062 .. 76 / 78 / 80 / 82 / 84 / 86 / 87	4 062 .. 64 / 66	4 062 .. 64 / 66	

For article 4 062 67: maximum number of auxiliary contacts with early closing per device = 1. The combination with other auxiliary contacts is not permitted.

Wiring diagrams:

. CA.

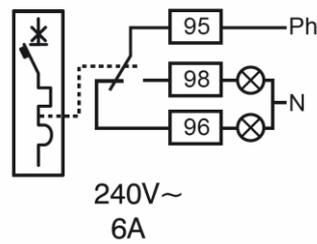


. (terminals marking on the 2nd CA are 21 / 22 / 24 when the selector of the reference 406 266 is in the "CA" position).

4. PREPARATION –CONNECTION (continued)

Wiring diagrams: (continued)

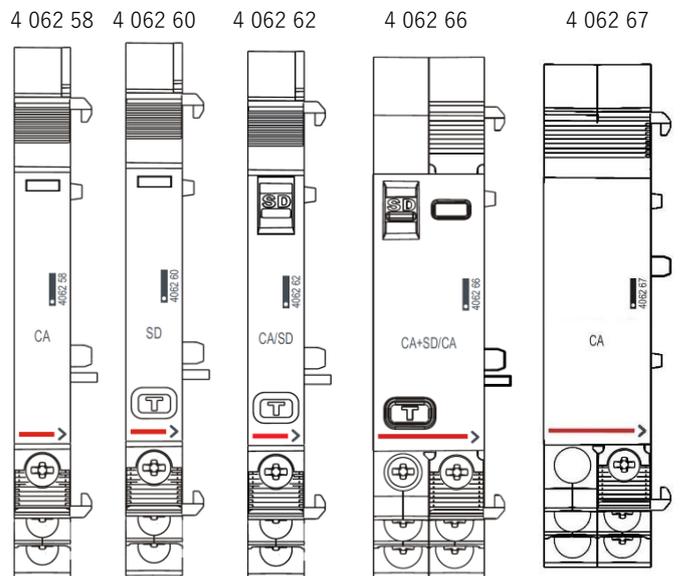
. SD.



5. GENERAL CHARACTERISTICS

Front face marking:

. By permanent ink pad printing:



- Function name :
CA = auxiliary changeover switch
SD = fault signalling changeover switch.
- Function selector CA or SD (moulded on the selector)
- Legrand reference code and Logo .

Rated current In:

.6A

Rated voltage:

.240V~

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5. GENERAL CHARACTERISTICS *(continued)*

Operating range:

- . From 5V d.c. and 1 mA min to 230V and 0,5 A maxi in d.c.
- . From 5V a.c. and 1 mA min to 400V and 3 A maxi in a.c.

Un in a.c.	5 V to 60 V	110 / 230 V	400 V
I maxi	10 A	6 A	3 A

Un in d.c.	12 / 24 V	48 / 60 V	110 / 230 V
I maxi	4 A	1 A	0,5 A

Thermal current:

- . I_{the} = 10A.

Short circuit withstand:

- . I_{cw} 1000A.

Held in short-circuit:

- . Equivalent to the breaking capacity in accordance with standards IEC/EN 60947-2 and IEC/EN 60898 of the Legrand circuit breaker that protects the auxiliary contact

Rated impulse withstand voltage:

- . U_{imp} = 5kV.

Electromagnetic compatibility:

- . Burst: 4 kV.
- . Surge 1,2 / 50 μs : 4 kV differential mode et 5 kV common mode

Insulation voltage:

- . U_i = 500 V

Dielectric strength:

- . 2500 V.

Tripping force:

- . Between 1 and 1,5 Nm.

Mechanical endurance:

- . These devices support the mechanical cycles of the associated devices
- . 20,000 manoeuvres without load..
- . 10,000 manoeuvres with load AC12 category according to the standard IEC 60947-5-1.

Ambient temperatures:

- . Operation: from -25° C. to +70° C
- . Storage: from -40° C. to +70° C

Enclosure material:

- . Polycarbonate charged 10% glass fiber.
- . Characteristics of this material: self extinguishing, heat and fire resistant according to EN 60898-1, glow-wire test at 960° C for external parts made of insulating material necessary to retain in position current-carrying parts and parts of protective circuit (650° C for all other external parts made of insulating material).

Early closing time (4 062 67):

- . t = 4 ms minimum

5. GENERAL CHARACTERISTICS *(continued)*

Degree of class protection:

- . Protection index of terminals against solid and liquid bodies: IP20 (in accordance with standards IEC 529, EN 60529 and NF C 20-010).
- . Protection index of the box against solid and liquid bodies: IP40 (in accordance with standards IEC 529, EN 60529 and NF C 20-010).
- . Protection index against mechanical shocks: IK02 (in accordance with standard EN 50102 and NF C 20-015).

Sinusoidal vibration resistance in accordance with IEC 60068-2-6:

- . Axes : x, y, z.
- . Frequency: 5 ÷ 100 Hz ; duration 90 minutes
- . Displacement (5 ÷ 13,2 Hz) : 1mm
- . Acceleration (13,2 ÷ 100 Hz) : 0,7g (g=9,81 m/s²)

Average weight per device:

Cat. N°	Weight (kg)
4 062 58 / 60 / 62	0,034
4 062 66	0,060
4 062 67	0,048

Volume when packed:

- . 0,21 dm³

Power dissipated (W) :

- . 0 W.

6. COMPLIANCE AND APPROVALS

In accordance with:

- . Standards EN 60947-5-1, EN 60439-1 (Low Voltage Directive 2006/95/EC), EN 60439-3 (Directive EMC 2004/108/EC) and EN 62019.
- . CEE guidelines : 73/23/CEE + 93/68/CEE

Plastic materials :

- . Halogens-free plastic materials.
- . Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

- . Design and manufacture of packaging in accordance with Decree 98-638 of 07.20.98 and Directive 94/62/EC