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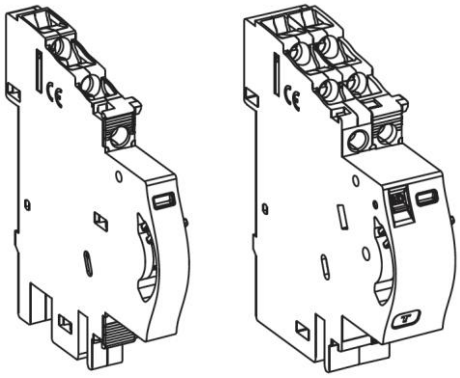
DX³ Signalling Biconnect Auxiliary Contact (CA and SD)

Cat. N°(s): 4 062 50, 52, 56, 64



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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).

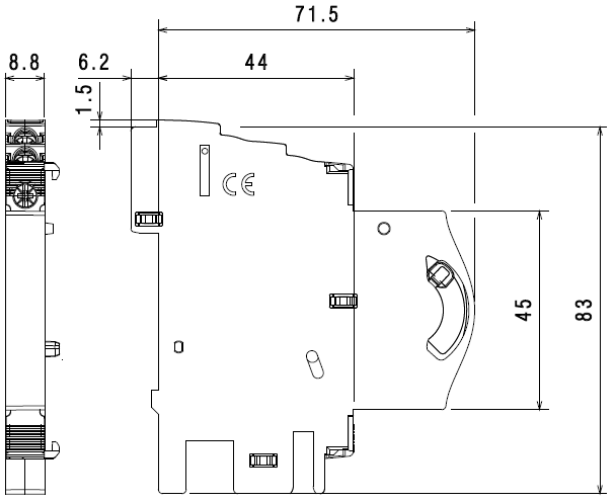
Symbol:

2. RANGE

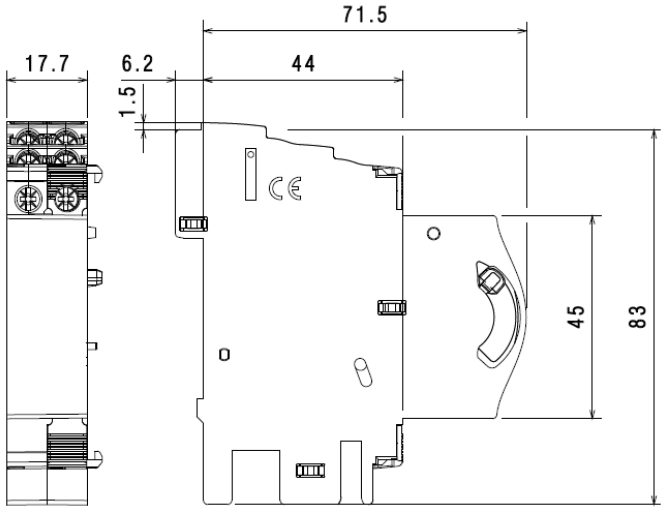
. Cat. n° 4 062 50 : auxiliary changeover switch (CA).
. Cat. n° 4 062 52 : fault signalling changeover switch (SD).
. Cat. n° 4 062 56 : auxiliary changeover switch (CA) modifiable into a fault signalling changeover switch (SD).
. Cat. n° 4 062 64 : auxiliary changeover switch (CA) + fault signalling changeover switch (SD) modifiable into 2 auxiliary changeover switch (2CA).

3. OVERALL DIMENSIONS

. 0,5 module width: Cat. n°(s) 4 062 50, 52, 56.



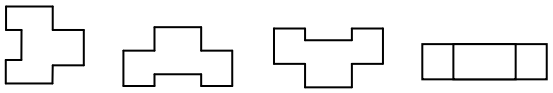
. 1 modules width: Cat. N° 4 062 64.



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 mm² to 1,5 mm² 2 x 1,5 mm²**	-
Flexible Cable	**1 x 0,5 mm² to1,5 mm² 2 x 1,5 mm²**	**1 x 0,5 mm² to 1,5 mm² 2 x 1,5 mm²**

Manual action of the CA or SD:
. By the handle of the associated device.

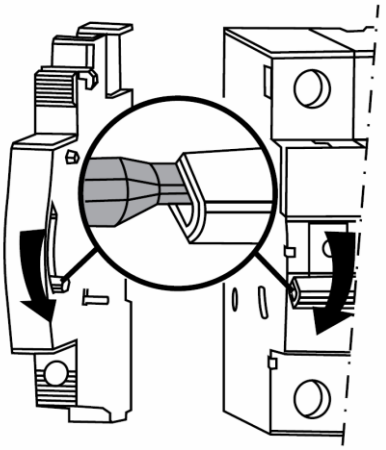
Visualization:
. By mechanical indicator on front face.
. Cat. n°(s) 4 062 50, 56 and 64 with the selector in “CA” position:
- Red : indicates that the contacts position of the device (MCB, IS, RCCBO,RCCB) which the auxiliary is associated.
- Transparent : indicates the ON position of the contacts of the associate device (MCB, IS, RCCBO,RCCB) which the auxiliary is associated.

. Cat. n°(s) 4 062 52, 56 and 64 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 thee associated device ((MCB, IS, RCCBO,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 56, 64, 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, RCCBO 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 50, 52, 56, 64).
- 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 o,ly 1 module signalling auxiliaries can be added (auxiliary + fault signalling contact or auxiliary contact + auxiliary contact 4 062 64). 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 DX-IS:
- only one signalling auxiliary CA type (Cat. n°(s) 4 062 50, 64).

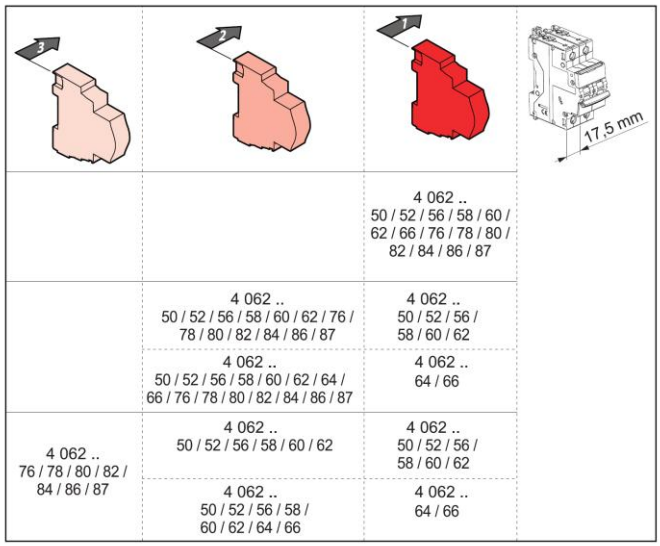
. With a remote trip head isolating switch DX-IS, three auxiliaries maximum which:
- one or two signalling auxiliaries CA type (Cat. n°(s) 4 062 50, 64).
- one control auxiliary cat n°(s) 4 062 7x / 8x.

. With a MCB, IS, RCBO,RCCB three auxiliaries maximum which:
- one or two signalling auxiliaries, CA or SD type (Cat. n°(s) 4 062 50, 52, 56, 64).
- one control auxiliary Cat. n°(s) 4 062 7x / 8x.

4. PREPARATION –CONNECTION *(continued)*

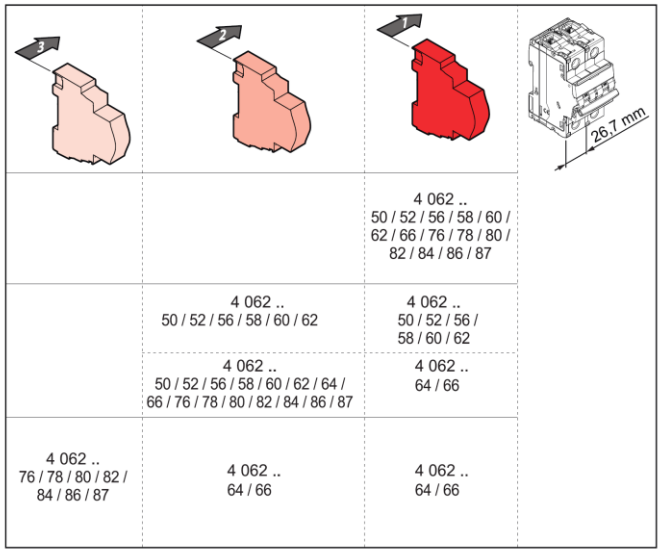
Combination tables of the auxiliaries:

. For devices 1 module per pole width:



		4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 66 / 76 / 78 / 80 / 82 / 84 / 86 / 87
	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

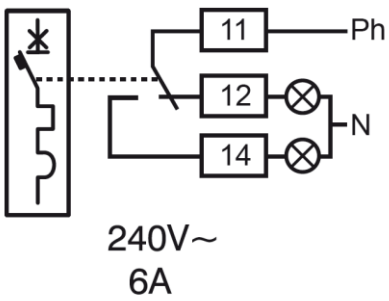
. For devices 1,5 modules per pole width:



		4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 66 / 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 / 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

Wiring diagrams:

. CA.

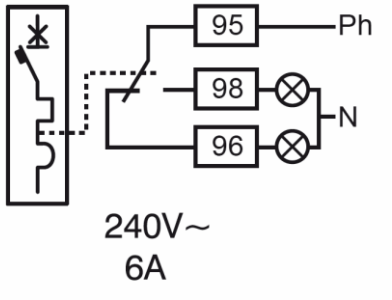


. (terminals marking on the 2nd CA are 21 / 22 / 24 when the selector of the reference 4 062 64 is in the "CA" position).

4. PREPARATION –CONNECTION *(continued)*

Wiring diagrams: *(continued)*

. SD.

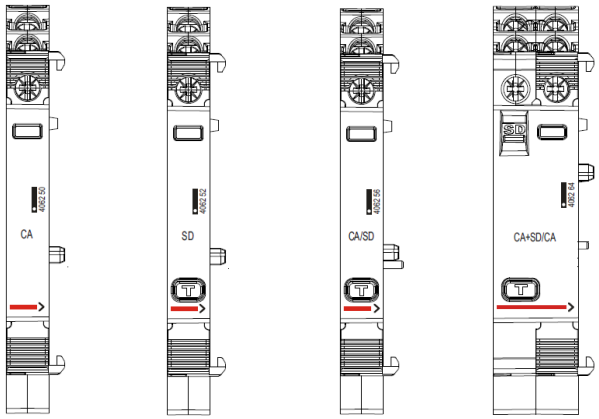


5. GENERAL CHARACTERISTICS

Front side marking:

. By permanent ink pad printing:

cat n° 4 062 50 cat n° 4 062 52 cat n° 4 062 56 cat n° 4 062 64



- 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~

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**

5. GENERAL CHARACTERISTICS *(continued)*

Thermal current:
. Ithe = 10A.

Short circuit withstand:
. Icw 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:
. Uimp = 5kV.

Electromagnetic compatibility:
. Burst: 4 kV.

. Surge 1,2 / 50 µs : 4 kV differential mode et 5 kV common mode**Insulation voltage:**
. Ui = 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).

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).

5. GENERAL CHARACTERISTICS *(continued)*

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/s^2)

Average weight per device:

Cat. N°	Weight (kg)
4 062 50, 52, 56	**0,034**
4 062 64	**0,060**

Volume when packed:
. 0,21 dm^3

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