

DX³ Signalling Auxiliary Contact (CA and SD)

Cat. N°(s): 4 062 58, 60, 62, 66



| CONTENTS | PAGE |
|-----------------------------------|------|
| 1. Description - Use | 1 |
| 2. Range | 1 |
| 3. Overall dimensions | 1 |
| 4. Preparation - Connection | 2 |
| 5. General Characteristics | 3 |
| 6. Compliance and approvals..... | 4 |

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:

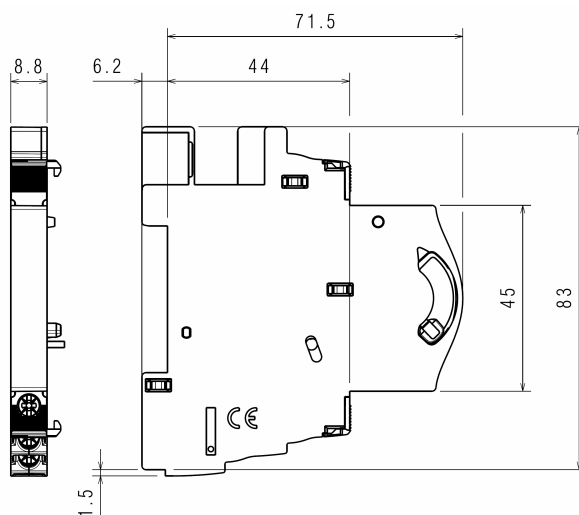


2. RANGE

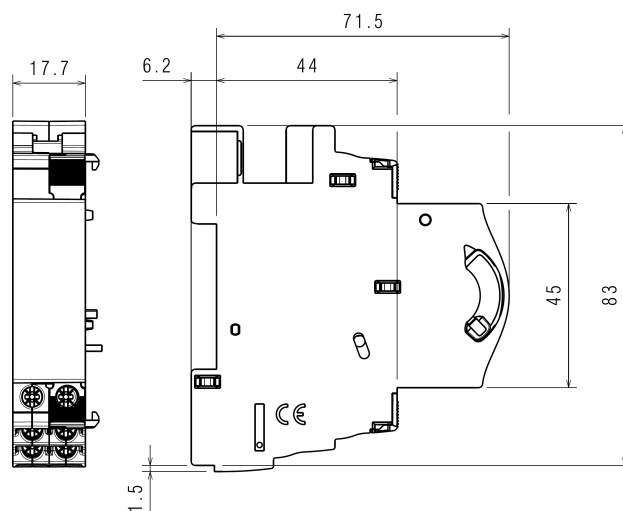
- . Cat. n° 4 062 58 : auxiliary changeover switch (CA).
- . Cat. n° 4 062 60 : fault signalling changeover switch (SD).
- . Cat. n° 4 062 62 : auxiliary changeover switch (CA) modifiable into a fault signalling changeover switch (SD).
- . Cat. n° 4 062 66 : auxiliary changeover switch (CA) + fault signalling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

3. OVERALL DIMENSIONS

. 0,5 module width: Cat. n°(s) 4 062 58, 260, 262.



. 1 modules width: Cat. n°(s) 4 062 58, 260, 262.



Signalling Auxiliary Contact (CA and SD)

Cat. N°(s): 4 062 58, 60, 62, 66

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 to 1,5 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 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 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.

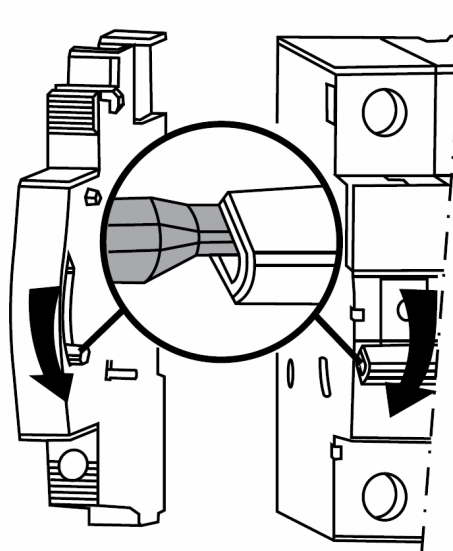
4. PREPARATION -CONNECTION (continued)

CA/SD Selector:

- . On the auxiliaries cat n°(s) 4 062 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, 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 maximum. (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).

List of allowed associations (Particular rules):

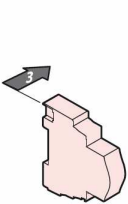
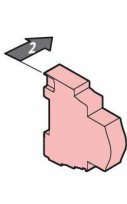
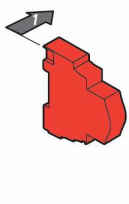
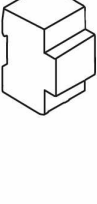
- . With an isolating switch DX-IS:
 - only one signalling auxiliary CA type (Cat. n°(s) 4 062 58 or 4 062 66).
- . With a remote trip head isolating switch DX-IS, three auxiliaries maximum which:
 - one or two signalling auxiliaries CA type (Cat. n°(s) 4 062 58 or 4 062 66).
 - one control auxiliary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

Signalling Auxiliary Contact (CA and SD)

Cat. N°(s): 4 062 58, 60, 62, 66

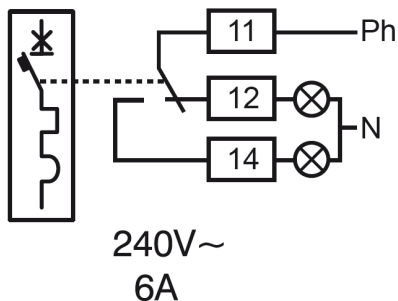
4. PREPARATION –CONNECTION (continued)

Combinations of the auxiliaries:

| | | | |
|---|---|---|---|
|  |  |  |  |
| | | 4062 .. 58 / 60 / 62 / 66 76 / 78 / 80 / 82 84 / 87 | |
| | 4062 .. 58 / 60 / 62 / 76 78 / 80 / 82 / 84 87 | 4062 .. 58 / 60 / 62 | |
| | 4062 .. 58 / 60 / 62 / 66 76 / 78 / 80 / 82 84 / 87 | 4062 66 | |
| 4062.. 76/78/80 82/84/87 | 4062 .. 58 / 60 / 62 | 4062 .. 58 / 60 / 62 | |
| | 4062 .. 58 / 60 / 62 / 66 | 4062 66 | |

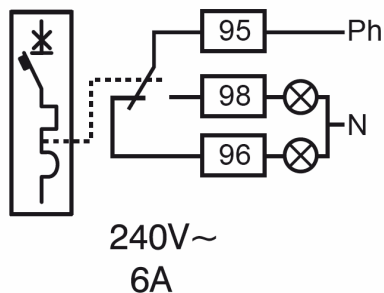
Wiring diagrams:

. CA.



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

. SD.

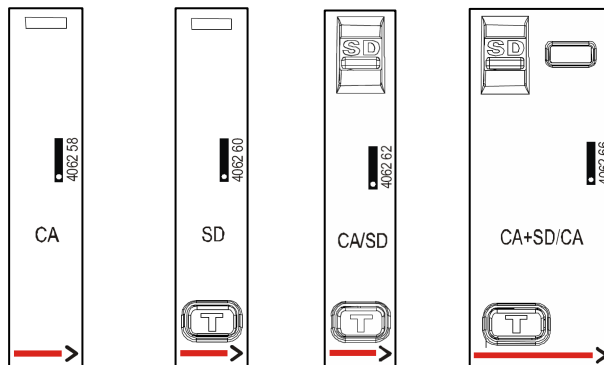



5. GENERAL CHARACTERISTICS

Marking on the front side:

. By permanent ink pad printing:

cat n° 4 062 58 cat n° 4 062 60 cat n° 4 062 62 cat n° 4 062 66



- 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 |

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

Signalling Auxiliary Contact (CA and SD)

Cat. N°(s): 4 062 58, 60, 62, 66

5. GENERAL CHARACTERISTICS *(continued)*

Insulation voltage:

. $U_i = 500\text{ V}$

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).

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 ($g=9,81\text{ m/s}^2$)

Average weight per device:

| Cat. N° | Weight (kg) |
|--------------------|--------------|
| 4 062 58, 260, 262 | 0,034 |
| 4 062 66 | 0,060 |

Volume when packed:

. 0,21 dm³

5. GENERAL CHARACTERISTICS *(continued)*

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