Legrand®

128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel : 0 (+33) 5 55 06 87 87 - Fax : 0 (+33) 5 55 06 88 88
www.legrand.com

ECO

Niloé™
Controls

Cat. No.(s): 6 645 01/02/03/04/05/08/10/11/15 - 6 646 01/02/03/04/05/08/10/11
6 647 01/02/04/05/08/09/10/11/13/14/15/16/91
6 648 01/02/04/05/08/09/10/11/13/14/16/91
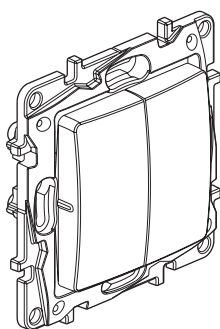
6 645 01 - 6 646 01   6 645 02 - 6 646 02   6 645 03 - 6 646 03

CONTENTS   Pages

1. USE

Switch or two-way switch. Double two-way switch with or without indicator. Triple switch, intermediate switch, pushbutton, multifunction controls, roller blind.
The mechanisms are supplied with rockers and support frames. To be fitted with one-gang or multi-gang plates, colour White or Ivory.
Flush or surface-mounting.
Screw or screw and claw mounting with claws (see accessories).
Supplied with protection cover.

2. RANGE

10 AX switches and two-way switches - 250 V~

	Description	Screw/claw mounting		Screw mounting	
		White	Ivory	White	Ivory
	Two-way switch 3 terminals, either switch function or two-way switch.	6 645 01	6 646 01	6 647 01	6 648 01
	Double two-way switch 2 x 3 terminals, either switch function or two-way switch.	6 645 02	6 646 02	6 647 02	6 648 02
	Two-way switch with indicator Becomes illuminated with lamps Cat. No. 665 090 or Cat. No. 665 092 and monitor with lamp Cat. No. 665 091.	6 645 10	6 646 10	6 647 10	6 648 10
	Triple switch 3 x 1-gang switches with fixing claws	6 645 03	6 646 03	-	-
	Intermediate switch Enables a third control point to be added in a two-way switch installation.	6 645 04	6 646 04	6 647 04	6 648 04

Switches 16 AX - 250 V~

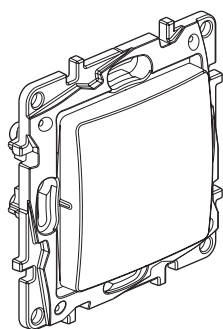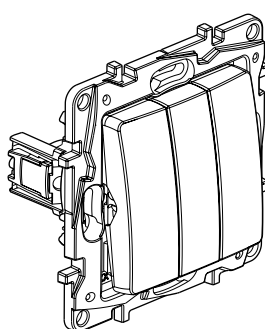|	Description	Screw/claw mounting		Screw mounting	
	Indicator two-way switch Supplied with lamp Cat. No 6 650 91	-	-	6 647 16	6 648 16

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6 647 01/02/04/05/08/09/10/11/13/14/15/16/91
6 648 01/02/04/05/08/09/10/11/13/14/16/91

2. RANGE (continued)

Multifunction switches

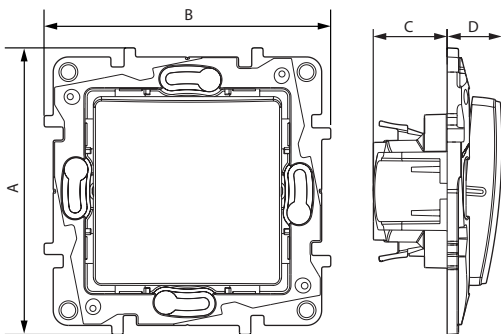|	Description	Screw/claw mounting		Screw mounting	
		White	Ivory	White	Ivory
	1 gang multifunction switch Supplied in push-button mode with wide rocker plate fitted. Possible configurations: pushbtton, two-way switch, double pushbutton, double two-way switch, pushbutton + two-way switch, two-way switch + push-button (supplied with 2 half rocker plates for combined functions).	-	-	6 647 13	6 648 13
	2 gang illuminated multifunction switch Supplied in 2 gang push-button mode. Can be converted to double illuminated two-way switch. Possible configurations: double illuminated pushbutton, double illuminated two-way switch, double two-way switch (supplied with 2 lamps Cat. No. 6 650 90 for illuminated functions).	-	-	6 647 14	6 648 14

2-way switch 10 AX + push-button 6 A - NO-NC contacts - 250 V~

	Description	White	Ivory	White	Ivory
	Two-way switch + push-button	-	-	6 647 09	6 648 09

Push-buttons NO-NC contact - 6 A - 250 V~

	Description	White	Ivory	White	Ivory
	1-gang	6 645 05	6 646 05	6 647 05	6 648 05
	2-gang	6 645 08	6 646 08	6 647 08	6 648 08
	Push-button with label-holder Supplied with lamp Cat. No 6 650 90 and labels with "bell", "padlock" and "light bulb".	6 645 15		6 647 15	

6 AX roller blind and 10 AX ventilation - 250 V~

	Description	White	Ivory	White	Ivory
	Shutters control switch 3 positions : Up/Stop/Down for direct control of a motor.	6 645 11	6 646 11	6 647 11	6 648 11
	Fan control switch 2 positions: slow or fast speed for direct control of centralised mechanical ventilation.	-	-	6 647 91	6 648 91

Niloé™
Controls

Cat. No.(s): 6 645 01/02/03/04/05/08/10/11/15 - 6 646 01/02/03/04/05/08/10/11
6 647 01/02/04/05/08/09/10/11/13/14/15/16/91
6 648 01/02/04/05/08/09/10/11/13/14/16/91

3. OVERALL DIMENSIONS (mm)

A	B	C	D
75.8	75.8	19.5	14.5

4. CONNECTION

Automatic terminals:
Cat. Nos 6 645 01/02/03/05/08/10/11/15
Cat. Nos 6 646 01/02/05/08/10/11
Cat. Nos 6 647 01/02/05/08/09/10/11/13/14/15/16/91
Cat. Nos 6 648 01/02/05/08/09/10/11/13/14/16/91
Screw terminals:
Cat. Nos 6 645 03/04
Cat. Nos 6 646 03/04
Cat. Nos 6 647 04
Cat. Nos 6 648 04
The automatic terminal release keys are grey (RAL 735).
Stripping length: 13 mm only for automatic terminals.
Compatible with flexible or rigid cables.
Cable entries for the phase marked with red colour code.

5. TECHNICAL CHARACTERISTICS

■ 5.1 Index of protection
Protection against solid bodies and liquids: IP 31
Protection against mechanical impact: IK 04

■ 5.2 Material characteristics
Poly gloss appearance
Colour: White (RAL 903) and Ivory (RAL 113)
Material: - Rocker plate: ABS
            - Halogen free
            - UV resistance
Material: - Support: PC
            - Colour: Grey (RAL 737)

Self-extinguishing:
+ 850° C / 30 s for insulating parts holding live parts in place.
+ 650° C / 30 s for other parts made of insulating materials.

■ 5.3 Electrical characteristics
Voltage: 250 VAC
Current: - 10 AX for switch, two-way switch and intermediate switch
            - 6 A for NO-NC pushbuttons
            - 6 AX for roller blind switch

■ 5.4 Climatic characteristics
Storage and usage temperature: - 5° C to + 35° C

6. MAINTENANCE

Surface cleaning with a cloth.
Do not use: acetone, tar remover, trichloroethylene.

Maintenance with the following products: Hexane (EN 60669-1), Methylated spirit, Soapy water, Diluted ammonia, Bleach diluted to 10%, Window-cleaning products.

Caution: A preliminary test should be carried out if other specific cleaning products are to be used.

7. ACCESSORIES

Monitor and indicator light
Connection by direct mounting
LED lamp

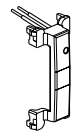• **6 650 90**
   230 V indicator light
   Consumption 0.15 mA

• **6 650 91**
   230 V monitor light
   Consumption 3 mA

• **6 650 92**
   12 V - 24 V - 48 V indicator light

"Rapido" claw
• **6 650 99**
   For fixing devices in refurbishment projects

8. STANDARDS AND APPROVALS

Compliant with installation and manufacturing standards.
See e-catalogue.

Technical data sheet: F01350EN/02   Updated: 17/10/2013   Created: 01/04/2011   **Ll legrand**