

## CONTROL DEVICES



## REFERENCE STANDARDS

**EN 60669-1 (2000)**  
Switches for household  
and similar fixed-electrical installations  
*Part 1: general requirements*

## MARKING



## VERSIONS

	Switches - 1 gang - one way (single pole) - two way (single pole) - intermediate switch - bell push
	Switches - 2 gang - one way (single pole) - two way (single pole)
	Switches - 3 gang - one way (single pole) - two way (single pole)
	Switches - 6 gang - one way (single pole)

## TECHNICAL CHARACTERISTICS

Rated current:	<b>10A - 10AX - 20AX</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Operating testing:	<b>40.000 operations at rated current 100.000 operations for mechanical life</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1-2 gang (min. deepness: 25mm) Surface 1-2 gang (min. deepness: 17mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

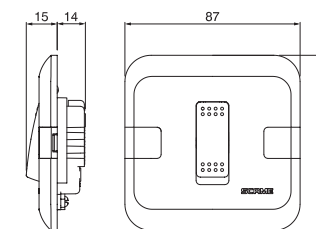
## WIRING AND INSTALLATION

Wiring capacity of the terminals

10A switches	20A switches
4x1 mm <sup>2</sup>	4x1 mm <sup>2</sup>
3x1,5 mm <sup>2</sup>	4x1,5 mm <sup>2</sup>
2x2,5 mm <sup>2</sup>	3x2,5 mm <sup>2</sup>
1x4 mm <sup>2</sup>	2x4 mm <sup>2</sup>
1x6 mm <sup>2</sup>	1x6 mm <sup>2</sup>

## DIMENSIONS

COD. 103.3211



(Dimensions in mm)

## APPLICATION EXAMPLES



## CONTROL DEVICES - MEGA ROCKER






## REFERENCE STANDARDS

**EN 60669-1 (2000)**  
Switches for household  
and similar fixed-electrical installations  
*Part 1: general requirements*

## MARKING



## VERSIONS

-  Switches - 1 gang  
- one way (single pole)  
- two way (single pole)  
- intermediate switch  
- bell push
-  Switches - 2 gang  
- one way (single pole)  
- two way (single pole)
-  Switches - 4 gang  
- one way (single pole)  
- two way (single pole)

## TECHNICAL CHARACTERISTICS

Rated current:	<b>10A - 10AX - 20AX</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Operating testing:	<b>40.000 operations at rated current 100.000 operations for mechanical life</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1-2 gang (min. deepness: 25mm) Surface 1-2 gang (min. deepness: 17mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

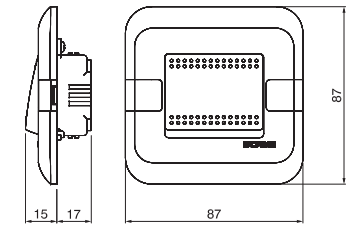
## WIRING AND INSTALLATION

Wiring capacity of the terminals

10A switches	20A switches
4x1 mm <sup>2</sup>	4x1 mm <sup>2</sup>
3x1,5 mm <sup>2</sup>	4x1,5 mm <sup>2</sup>
2x2,5 mm <sup>2</sup>	3x2,5 mm <sup>2</sup>
1x4 mm <sup>2</sup>	2x4 mm <sup>2</sup>
1x6 mm <sup>2</sup>	1x6 mm <sup>2</sup>

## DIMENSIONS

COD. 103.6011



(Dimensions in mm)

## APPLICATION EXAMPLES



## CONTROL DEVICES - DOUBLE POLE SWITCHES

## REFERENCE STANDARDS



**BS EN 60669-1 (2000)**  
Switches for household  
and similar fixed-electrical installations.  
*Part 1: general requirements.*

## WIRING AND INSTALLATION

Wiring capacity of the terminals

20A switches	45A switches
3x2,5 mm <sup>2</sup>	4x4 mm <sup>2</sup>
2x4 mm <sup>2</sup>	3x6 mm <sup>2</sup>
1x6 mm <sup>2</sup>	1x16 mm <sup>2</sup>

## TECHNICAL CHARACTERISTICS

Rated current:	<b>20A - 45A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Operating testing	<b>40.000 operations at rated current 100.000 operations for mechanical life</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1-2 gang (min. depth: 35mm) Surface 1-2 gang (min. depth: 35mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015 Silver - Brass - Anthracite</b>

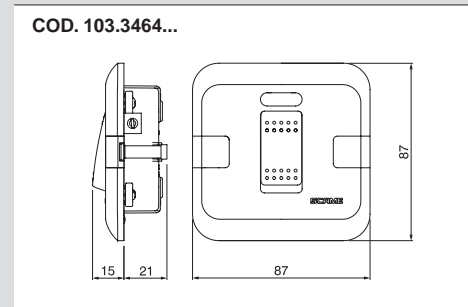
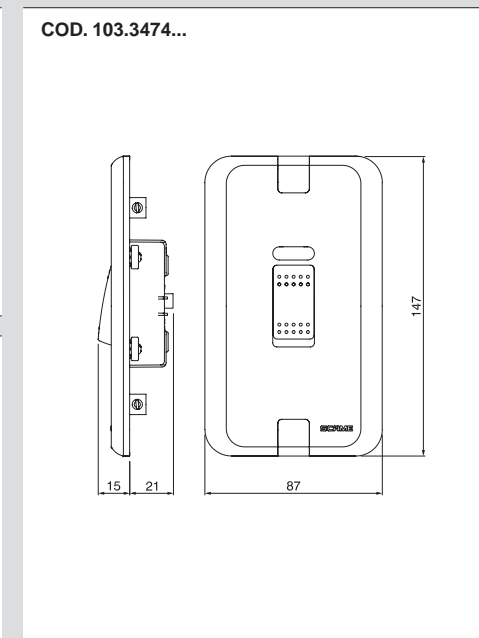
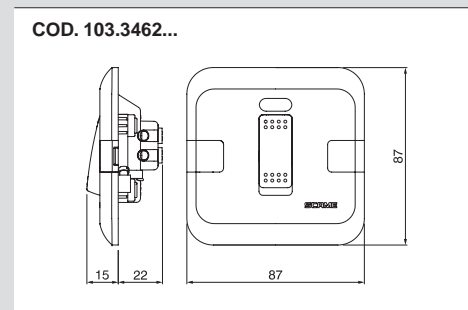
## VERSIONS

	- 20A 1 gang
	- 45A 1 gang
	- 45A 1 gang (double plate)

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## DIMENSIONS



(Dimensions in mm)

## APPLICATION EXAMPLES



## CONTROL DEVICES - SPUR UNIT



## REFERENCE STANDARDS

**BS 1363-4 (1995)**  
 13A plugs, socket-outlets, adaptors and connection units.  
 Part 4: specification for 13A fused connection units  
 switched and unswitched.

## VERSIONS

	With fuse, switch and neon
	With fuse and switch
	With fuse and neon
	With fuse

## TECHNICAL CHARACTERISTICS

Rated current:	<b>13A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Cabling capacity of the terminals:	<b>3x2,5mm<sup>2</sup> 2x4 mm<sup>2</sup> 1x6 mm<sup>2</sup> (stranded)</b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 25mm)</b>
Fuse:	<b>Ceramic fuse to BS 1362, 13A 250V AC only</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



## CONTROL DEVICES - CABLE OUTLETS



## REFERENCE STANDARDS

**BS 5733 (1995)**

## MARKING



## VERSIONS

	20A cable outlet
	45A cable outlet

## TECHNICAL CHARACTERISTICS

Rated current:	<b>20A - 45A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Cabling capacity of the terminals 20A:	<b>3x2,5mm<sup>2</sup> 2x4 mm<sup>2</sup> 1x6 mm<sup>2</sup> (stranded)</b>
Cabling capacity of the terminals 45A:	<b>4x4mm<sup>2</sup> 3x6mm<sup>2</sup> 1x16mm<sup>2</sup> (stranded)</b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 35mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



## SOCKET OUTLETS - BRITISH STANDARD



## REFERENCE STANDARDS

**BS 1363-2**  
13A plugs, socket-outlets and adaptors.  
Specification for 13A switched and unswitched socket-outlets.

**BS 546 (1954)**  
Two-pole and Earthing-Pin plugs, socket-outlets and socket-outlet adaptors for AC (50-60 Hz) circuit up to 250V.

## VERSIONS

	British socket 5A
	British socket 13A
	Single British switchsocket 13A
	Double British switchsocket 13A
	Single British switchsocket 15A

## TECHNICAL CHARACTERISTICS

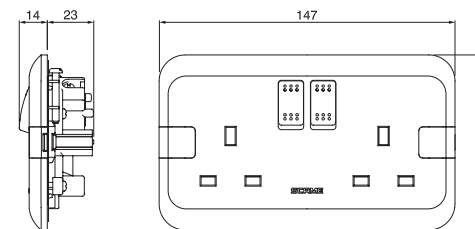
Rated current:	<b>5A - 13A - 15A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Cabling capacity of the terminals:	<b>3x2,5mm<sup>2</sup> 3x4mm<sup>2</sup> 2x6mm<sup>2</sup> (stranded)</b>
Mounting box type:	<b>Flush 1-2 gang (min. deepness: 25mm-35mm for 15A) Surface 1-2 gang (min. deepness: 25mm-35mm for 15A)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## DIMENSIONS

COD. 103.4031



(Dimensions in mm)

## APPLICATION EXAMPLES



## SOCKET OUTLETS - NON UK STANDARD



## REFERENCE STANDARDS

**IEC 60884-1 (2002)**  
Plugs and socket outlets  
for household and similar purposes  
*Part 1: general requirements.*

**NEMA 5-15**  
(American)

## VERSIONS

	Euro-american socket 16A
	Double Euro-american socket 16A
	Single American switchsocket 15A
	American socket 15A
	Double american socket 15A
	German socket 16A

## TECHNICAL CHARACTERISTICS

Rated current:	<b>13A - 15A - 16A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Cabling capacity of the terminals:	<b>3x2,5mm<sup>2</sup> 2x4mm<sup>2</sup> 2x6mm<sup>2</sup> (stranded)</b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 25mm) Surface 1 gang (min. deepness: 25mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES






## SOCKET OUTLETS - TELEPHONE AND DATA



## REFERENCE STANDARDS

BS EN 61558-2-5 (1998)  
TIA/EIA TSB40A CAT 5e/CAT6  
TIA/EIA 568-A CAT 5e/CAT6  
ISO/IEC 11801 CAT 5e/CAT6

## VERSIONS

	British Telecom socket master
	British Telecom socket secondary
	<ul style="list-style-type: none"> <li>- RJ11 module</li> <li>- RJ12 module</li> <li>- RJ45 (cat.5) module</li> <li>- RJ45 (cat.6) module</li> <li>- RJ11</li> <li>- RJ12</li> <li>- RJ45 cat.5</li> <li>- RJ45 cat.6</li> </ul>
	<ul style="list-style-type: none"> <li>- Double RJ11</li> <li>- Double RJ12</li> <li>- Double RJ45 cat.5</li> <li>- Double RJ45 cat.6</li> <li>- RJ11 + RJ12</li> <li>- RJ11 + RJ45 cat.5</li> <li>- RJ11 + RJ45 cat.6</li> <li>- RJ12 + RJ45 cat.5</li> <li>- RJ12 + RJ45 cat.6</li> </ul>

## TECHNICAL CHARACTERISTICS

Operating temperature:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>+60°C</b>
Protection degree:	<b>IP20</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 35mm) Surface 1 gang (min. deepness: 35mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES





## SOCKET OUTLETS - TV/FM/SAT



## REFERENCE STANDARDS

**BS EN 50083-9 (2002)**  
Cabled distribution systems for television and sound signals.

## MARKING



## VERSIONS

	TV
	TV/FM
	TV/FM/SAT
	TV/SAT
	SAT
	SAT/SAT

## TECHNICAL CHARACTERISTICS

Frequency specification:	<b>TV: 5-862 MHz</b> <b>FM: 87,5-108 MHz</b> <b>SAT: 950-2400 MHz</b>
Operating temperature:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Protection degree:	<b>IP20</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1 gang</b> <b>(min. deepness: 35mm)</b> <b>Surface 1 gang</b> <b>(min. deepness: 35mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016</b> <b>Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



## SOCKET OUTLETS - SHAVER SUPPLY UNIT



## REFERENCE STANDARDS

**BS EN 61558-2-5 (2010)**  
 Safety for transformers, reactors, power supply units and combinations thereof. Particular requirements and tests for transformers for shavers. Power supply units for shavers and shaver supply units.

## MARKING



## VERSIONS



Shaver supply unit

## TECHNICAL CHARACTERISTICS

Max. load:	<b>20VA</b>
Rated voltage:	<b>230V~ input</b> <b>115V~/230V~ output</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20D</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Cabling capacity of the terminals:	<b>2x2,5mm<sup>2</sup></b> <b>1x4mm<sup>2</sup></b>
Mounting box type:	<b>Flush 2 gang</b> <b>(min. deepness: 45mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016</b> <b>Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



## ELECTRONIC - DIMMER CONTROL DEVICE AND FAN CONTROL SWITCH






## REFERENCE STANDARDS

**BS EN 60669-2-1 (2004) + A12 (2010)**  
Switches for household and similar fixed electrical installations. Particular requirements. Electronic switches.

## MARKING



## VERSIONS

-  One way  
500W - 1.000W
-  Two way  
500W - 1.000W
-  Fan control 80W

## TECHNICAL CHARACTERISTICS

Rated load:	<b>500W - 1.000W / 80W</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Operating temperature:	<b>-5°C +40°C</b>
Protection degree:	<b>IP20</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 35mm) Surface 1 gang (min. deepness: 25mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



## ACCESSORIES



## REFERENCE STANDARDS

**BS 5733 (1995)**  
**IEC 60670**

## MARKING



## VERSIONS

-  Surface mounting box - 1 gang  
(Internal depth 35mm)
-  Surface mounting box - 2 gang  
(Internal depth 35mm)
-  Blank plates - 1 gang
-  Blank plates - 2 gang
-  Blank plates - 1 gang  
with 1 hole
-  Blank plates - 1 gang  
with 2 holes

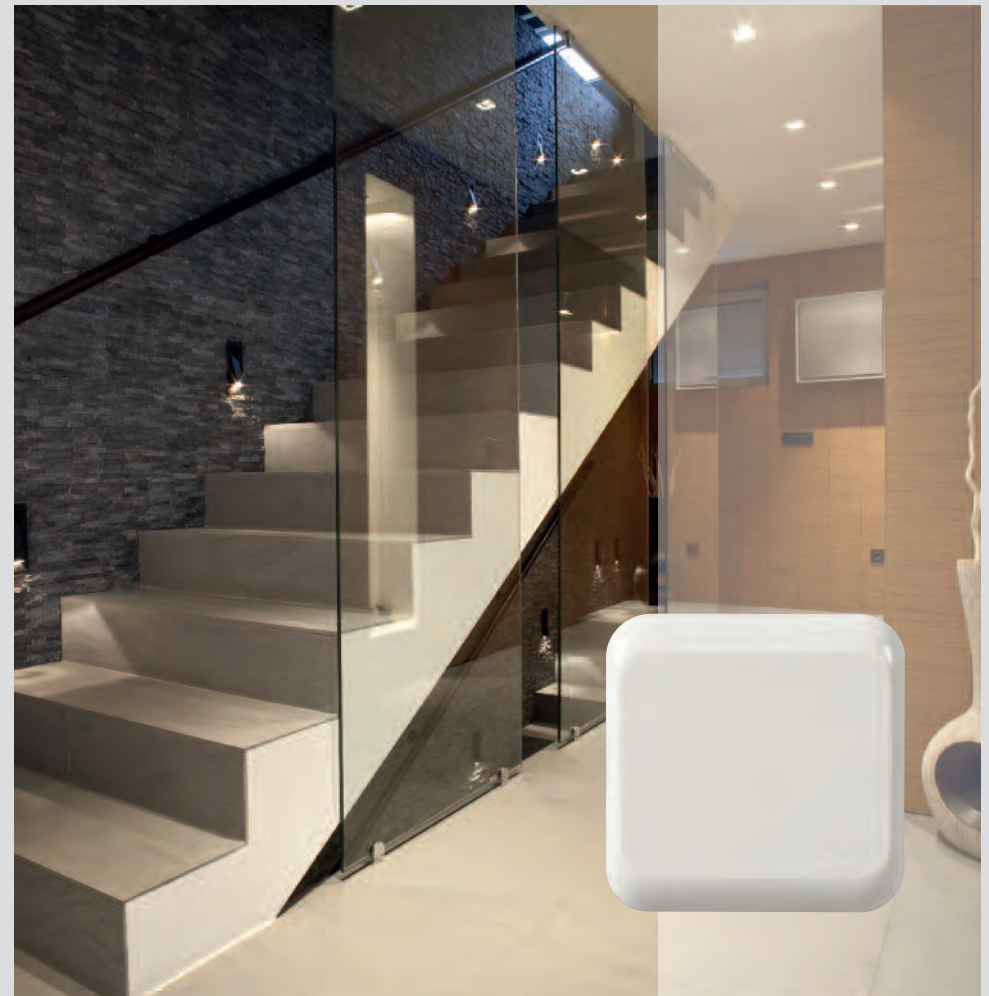
## TECHNICAL CHARACTERISTICS

Operating temperature:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Protection degree:	<b>IP20</b>
Glow Wire test:	<b>850°C</b>
Max. installation altitude:	<b>2.000 m</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

## APPLICATION EXAMPLES



■ CEILING ROSE



■ REFERENCE STANDARDS

BS 67: 1987

■ MARKING



■ VERSIONS



Ceiling rose

■ TECHNICAL CHARACTERISTICS

Rated current:	<b>6A</b>
Rated voltage:	<b>250V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>250V~</b>
Protection degree:	<b>IP20</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>850°C</b>
Max. weight load:	<b>5kg</b>
Cabling capacity of the terminals:	<b>3x1mm<sup>2</sup> 2x1,5mm<sup>2</sup> 1x2,5mm<sup>2</sup></b>
Mounting box type:	<b>Flush 1 gang (min. deepness: 25mm) Surface 1 gang (min. deepness: 25mm)</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>White RAL 9016 Ivory RAL 1015</b>

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES

