

Technical Construction File EN 60669-1:2018 Switches for household and similar fixed-electrical installations - Part 1: General requirements	
Report Reference No :	TLZJ24011054185
Tested by (name+signature) :	Stephan zhang
Approved by (name+signature) :	Kevin Huang
Date of issue :	January 15,2024
Testing Laboratory :	Shanghai Global Testing Services Co., Ltd.
Address :	Floor 2nd, Building D-1, No. 128, Shenfu Road, Minhang District, Shanghai, China..
Testing procedure :	CE
Applicant's name :	Wenzhou Boden Electric Co., Ltd.
Address :	No 406, Binhai 12th Road,Economic and Technological Development Zone, Wenzhou city, Zhejiang Province
Manufacturer's name :	Wenzhou Boden Electric Co., Ltd.
Address :	No 406, Binhai 12th Road,Economic and Technological Development Zone, Wenzhou city, Zhejiang Province
Factory's name :	Wenzhou Boden Electric Co., Ltd.
Address :	No 406, Binhai 12th Road,Economic and Technological Development Zone, Wenzhou city, Zhejiang Province
Test specification:	
Standard :	☒ EN 60669-1:2018
Test procedure :	CE
Non-standard test method :	N/A
Test Report Form No :	EN_60669-1_2018
TRF Originator :	GTS
Master TRF :	Dated 2018-05
Test item description :	switch
Trade Mark :	-
Model/Type reference :	See page 2 to 5
Ratings :	10V-250V 10A



Model:

A-01,A-02,A-02-1,A-03,A-03-1,A-04,A-04-T,A-05,A-05-T,A-06,A-06-1,A-06-Y,A-07,A-08,A-08-Y,A-09,A-09-Y,A-10,A-10-Y,A-11,A-12,A-17,A-19,A-19-Y,A-26,A-27,A-28,A-29,A-30,A-31,A-36,A-47,A-48,A-49,A-50,A-51,A-146

B-21,B-22,B-23,B-24,B-25,B-26,B-27,B-28,B-29,B-30,B-31,B-32,B-33,B-34

B-FCM-01,B-FCM-02,B-FCM-03,B-FCM-04,B-FCM-05,B-FCM-06,B-FCM-07,B-FCM-08,B-FCM-09,B-FCM-10,B-FCM-11,B-FCM-12,B-FCM-13,B-FCM-14,B-FCM-15,B-FCM-16,B-FCM-17,B-FCM-18,B-FCM-19,B-FCM-20,B-FCM-21,B-FCM-22,B-FCM-23

BM-01,BM-02,BM-02-1,BM-03,BM-03-1,BM-04,BM-04-T,BM-05,BM-05-T,BM-06,BM-06-1,BM-06-Y,BM-07,BM-08,BM-08-Y,BM-09,BM-09-Y,BM-10,BM-10-Y,BM-11,BM-12,BM-19,BM-19-Y

BM1-01,BM1-02,BM1-02-1,BM1-03,BM1-03-1,BM1-04,BM1-04-T,BM1-05,BM1-05-T,BM1-06,BM1-06-1,BM1-06-Y,BM1-07,BM1-08,BM1-08-Y,BM1-09,BM1-09-Y,BM1-10,BM1-10-Y,BM1-11,BM1-12,BM1-19,BM1-19-Y

BE-01,BE-02,BE-03,BE-04,BE-05,BE-06,BE-09,BE-10,BE-11,BE-12,BE-17,BE-26,BE-27,BE-28,BE-29,BE-30,BE-31,BE-36,BE-47,BE-48,BE-49,BE-50,BE-51,BE-146

BZ-01,BZ-02,BZ-03,BZ-04,BZ-05,BZ-06,BZ-09,BZ-10,BZ-11,BZ-12,BZ-17,BZ-26,BZ-27,BZ-28,BZ-29,BZ-30,BZ-31,BZ-36,BZ-47,BZ-48,BZ-49,BZ-50,BZ-51,BZ-146

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C-01,C-02,C-03,C-04,C-05,C-06,C-07,C-08,C-09,C-10,C-11,C-12,C-13,C-14,C-15,C-16,C-17,C-18,C-19,C-20,C-21,C-22,C-23,C-24,C-25,C-26,C-27,C-28,C-29,C-30

CM-04,CM-05,CM-06,CM-09

CS-01,CS-02,CS-03,CS-04,CS-05,CS-06,CS-09,CS-10,CS-11,CS-12,CS-17,CS-26,CS-27,CS-28,CS-29,CS-30,CS-31,CS-47,CS-36,CS-47,CS-48,CS-49,CS-50,CS-51,CS-146

EA-01,EA-02,EA-03,EA-04,EA-05,EA-06,EA-07,EA-08,EA-09,EA-10,EA-11,EA-12,EA-13,EA-14,EA-15

EC-01,EC-02,EC-03,EC-04,EC-05,EC-06,EC-07,EC-08,EC-09,EC-10,EA-11,EA-12,EA-13,EA-14,EA-15

EF-01,EF-02,EF-03,EF-04,EF-05,EF-06,EF-07,EF-08,EF-09,EF-10,EA-11,EA-12,EA-13,EA-14,EA-15

EH-01,EH-02,EH-03,EH-04,EH-05,EH-06,EH-07,EH-08,EH-09,EH-10,EH-11,EH-12,EH-13,EH-14,EH-15

EK-01,EK-02,EK-03,EK-04,EK-05,EK-06,EK-07,EK-08,EK-09,EK-10,EK-11,EK-12,EK-13,EK-14,EK-15

EM-01,EM-02,EM-03,EM-04,EM-05,EM-06,EM-07,EM-08,EM-09,EM-10,EM-11,EM-12,EM-13,EM-14,EM-15

EN-01,EN-02,EN-03,EN-04,EN-05,EN-06,EN-07,EN-08,EN-09,EN-10,EN-11,EN-12,EN-13,EN-14,EN-15

ELE-01,ELE-02,ELE-03,ELE-04,ELE-05,ELE-06,ELE-09,ELE-10,ELE-11,ELE-12,ELE-17,ELE-26,ELE-27,ELE-28,ELE-29,ELE-30,ELE-31,ELE-36,ELE-47,ELE-47,ELE-48,ELE-49,ELE-50,ELE-51,ELE-146

EP-01,EP-02,EP-03,EP-4,EP-05,EP-06,EP-09,EP-10,EP-11,EP-12,EP-17,EP-26,EP-27,EP-28,EP-29,EP-30,EP-31,EP-36,EP-47,EP-48,EP-49,EP-50,EP-51,EP-146

FB-01,FB-02,FB-03,FB-04,FB-05,FB-06,FB-09,FB-10,FB-11,FB-12,FB-17,FB-26,FB-27,FB-28,FB-29,FB-30,FB-31,FB-36,FB-47,FB-47,FB-48,FB-49,FB-50,FB-51,FB-146

FCM-01,FCM-02,FCM-03,FCM-04,FCM-05,FCM-06,FCM-07,FCM-08,FCM-09,FCM-10,FCM-11,FCM-12,FCM-13,FCM-14,FCM-15,FCM-16,FCM-17,FCM-18,FCM-19,FCM-20,FCM-21,FCM-22,FCM-23

FYKB-01,FYKB-02,FYKB-03,FYKB-04,FYKB-05,FYKB-06,FYKB-09,FYKB-10,FYKB-11,FYKB-12,FYKB-17,FYKB-26,FYKB-27,FYKB-28,FYKB-29,FYKB-30,FYKB-31,FYKB-36,FYKB-47,FYKB-47,FYKB-48,FYKB-49,FYKB-50,FYKB-51,FYKB-146

FYKH-01,FYKH-02,FYKH-03,FYKH-04,FYKH-05,FYKH-06,FYKH-09,FYKH-10,FYKH-11,FYKH-12,FYKH-17,FYKH-26,FYKH-27,FYKH-28,FYKH-29,FYKH-30,FYKH-31,FYKH-36,FYKH-47,FYKH-48,FYKH-49,FYKH-50,FYKH-51,FYKH-146

FMB-01,FMB-02,FMB-03,FMB-04,FMB-05,FMB-06,FMB-09,FMB-10,FMB-11,FMB-12,FMB-17,FMB-26,FMB-27,FMB-28,FMB-29,FMB-30,FMB-31,FMB-36,FMB-47,FMB-48,FMB-49,FMB-50,FMB-51,FMB-146

FM-01,FM-02,FM-03,FM-04,FM-05,FM-06,FM-09,FM-10,FM-11,FM-12,FM-17,FM-26,FM-27,FM-28,FM-29,FM-30,FM-31,FM-36,FM-47,FM-48,FM-49,FM-50,FM-51,FM-146

FMMB-01,FMMB-02,FMMB-03,FMMB-04,FMMB-05,FMMB-06,FMMB-09,FMMB-10,FMMB-11,FMMB-12,FMMB-17,FMMB-26,FMMB-27,FMMB-28,FMMB-29,FMMB-30,FMMB-31,FMMB-47,FMMB-47,FMMB-48,FMMB-49,FMMB-50,FMMB-51,FMMB-146

FL-01,FL-02,FL-03,FL-04,FL-05,FL-06,FL-09,FL-10,FL-11,FL-12,FL-17,FL-26,FL-27,FL-28,FL-29,FL-30,FL-31,FL-36,FL-47,FL-47,FL-48,FL-49,FL-50,FL-51,FL-146

H-01,H-02,H-03,H-04,H-05,H-06,H-07,H-08,H-09,H-10,H-11,H-12,H-13,H-14,H-15,H-16,H-17,H-18,H-19,H-20

0,H-21,H-22,H-23,H-24,H-25,H-26,H-27,H-28,H-29,H-30

LC-01,LC-02,LC-03,LC-04,LC-05,LC-06,LC-09,LC-10,LC-11,LC-12,LC-17,LC-20,LC-26,LC-27,LC-28,LC-29,
LC-30,LC-31,LC-36,LC-47,LC-48,LC-49,LC-50,LC-51,LC-146

LCQ-01,LCQ-02,LCQ-03,LCQ-04,LCQ-05,LCQ-06,LCQ-09,LCQ-10,LCQ-11,LCQ-12,LCQ-17,LCQ-26,LCQ-
27,LCQ-28,LCQ-29,LCQ-30,LCQ-31,LCQ-36,LCQ-47,LCQ-48,LCQ-49,LCQ-50,LCQ-51,LCQ-146

LQ-01,LQ-02,LQ-03,LQ-04,LQ-05,LQ-06,LQ-09,LQ-10,LQ-11,LQ-12,LQ-17,LQ-26,LQ-27,LQ-28,LQ-29,LQ-3
0,LQ-31,LQ-36,LQ-47,LQ-48,LQ-49,LQ-50,LQ-51,LQ-146

K-01,K-02,K-03,K-04,K-05,K-06,K-07,K-08,K-09,K-10,K-11,K-12,K-13,K-14,K-15,K-16,K-17,K-18,K-19,K-20,
K-21,K-22,K-23,K-24,K-25,K-26,K-27,K-28,K-29,K-30

KZ-01,KZ-02,KZ-03,KZ-04,KZ-05,KZ-06,KZ-07,KZ-08,KZ-09,KZ-10

M-01,M-02,M-02-1,M-03,M-03-1,M-04,M-04-T,M-05,M-05-T,M-06,M-06-1,M-06-Y,M-07,M-08,M-08-Y,M-09,M-
09-Y,M-10,M-10-Y,M-11,M-12,M-19,M-19-Y

MA-01,MA-02,MA-03,MA-04,MA-05,MA-06,MA-09,MA-10,MA-11,MA-12,MA-27,MA-28,MA-29,MA-30,MA-31,
MA-36

MZ-01,MZ-02,MZ-03,MZ-04,MZ-05,MZ-06,MZ-09,MZ-10,MZ-11,MZ-12,MZ-27,MZ-28,MZ-29,MZ-30,MZ-31

PJ-01,PJ-02,PJ-03,PJ-04,PJ-05,PJ-06,PJ-09,PJ-10,PJ-11,PJ-12,PJ-17,PJ-26,PJ-27,PJ-28,PJ-29,PJ-30,PJ-
31,PJ-36

Q-01,Q-02,Q-03,Q-04,Q-05,Q-06,Q-07,Q-08,Q-09,Q-10,Q-11,Q-12,Q-13,Q-14,Q-15,Q-16,Q-17,Q-18,Q-19,
Q-20,Q-21,Q-22,Q-23,Q-24,Q-25,Q-26,Q-27,Q-28,Q-29,Q-30,Q-31,Q-32,Q-33,Q-34,Q-35,Q-36,Q-37,Q-38,
Q-39,Q-40,Q-41,Q-42,Q-43,Q-44,Q-45,Q-46,Q-47,Q-48,Q-49,Q-50

SPJ-01,SPJ-02,SPJ-03,SPJ-04,SPJ-05,SPJ-06,SPJ-09,SPJ-10,SPJ-11,SPJ-12,SPJ-17,SPJ-26,SPJ-27,SPJ
-28,SPJ-29,SPJ-30,SPJ-31,SPJ-36

SZ-01,SZ-02,SZ-03,SZ-04,SZ-05,SZ-06,SZ-09,SZ-10,SZ-11,SZ-12,SZ-17,SZ-26,SZ-27,SZ-28,SZ-29,SZ-30,
SZ-31,SZ-36,SZ-47,SZ-48,SZ-49,SZ-50,SZ-51,SZ-146

VL-01,VL-02,VL-03,VL-04,VL-05,VL-06,VL-09,VL-10,VL-11,VL-12,VL-17,VL-26,VL-27,VL-28,VL-29,VL-30,V
L-31,VL-36,VL-47,VL-48,VL-49,VL-50,VL-51,VL-146

VS-01,VS-02,VS-03,VS-04,VS-05,VS-06,VS-09,VS-10,VS-11,VS-12,VS-17,VS-26,VS-27,VS-28,VS-29,VS-30,VS-31,VS-36,VL-47,VL-48,VL-49,VL-50,VL-51,VL-146

W-01,W-02,W-03,W-04,W-05,W-06,W-09,W-10,W-11,W-12,W-17,W-26,W-27,W-28,W-29,W-30,W-31,W-36,W-47,W-48,W-49,W-50,W-51,W-146

W-FCM-01,W-FCM-02,W-FCM-03,W-FCM-04,W-FCM-05,W-FCM-06,W-FCM-07,W-FCM-08,W-FCM-09,W-FCM-10,W-FCM-11,W-FCM-12,W-FCM-13,W-FCM-14,W-FCM-15,W-FCM-16,W-FCM-17,W-FCM-18,W-FCM-19,W-FCM-20,W-FCM-21,W-FCM-22,W-FCM-23

X-01,X-02,X-03,X-04,X-05,X-06,X-07,X-08,X-09,X-10,X-11,X-12,X-13,X-14,X-15,X-16,X-17,X-18,X-19,X-20,X-21,X-22,X-23,X-24,X-25,X-26,X-27,X-28,X-29,X-30,X-05-Z

Z-FCM-01,Z-FCM-02,Z-FCM-03,Z-FCM-04,Z-FCM-05,Z-FCM-06,Z-FCM-07,Z-FCM-08,Z-FCM-09,Z-FCM-10,Z-FCM-11,Z-FCM-12,Z-FCM-13,Z-FCM-14,Z-FCM-15,Z-FCM-16,Z-FCM-17,Z-FCM-18,Z-FCM-19,Z-FCM-20,Z-FCM-21,Z-FCM-22,Z-FCM-23

Z-01,Z-02,Z-03,Z-04,Z-05,Z-06,Z-07,Z-08,Z-09,Z-10,Z-11,Z-12,Z-13,Z-14,Z-15,Z-16,Z-17,Z-18,Z-19,Z-20

The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model :

A-01,A-02,A-02-1,A-03,A-03-1,A-04,A-04-T,A-05,A-05-T,A-06,A-06-1,A-06-Y,A-07,A-08,A-08-Y,A-09,A-09-Y,A-10,A-10-Y,A-11,A-12,A-17,A-19,A-19-Y,A-26,A-27,A-28,A-29,A-30,A-31,A-36,A-47,A-48,A-49,A-50,A-51,A-146
B-21,B-22,B-23,B-24,B-25,B-26,B-27,B-28,B-29,B-30,B-31,B-32,B-33,B-34,
B-FCM-01,B-FCM-02,B-FCM-03,B-FCM-04,B-FCM-05,B-FCM-06,B-FCM-07,B-FCM-08,B-FCM-09,B-FCM-10,
B-FCM-11,B-FCM-12,B-FCM-13,B-FCM-14,B-FCM-15,B-FCM-16,B-FCM-17,B-FCM-18,B-FCM-19,B-FCM-20,
B-FCM-21,B-FCM-22,B-FCM-23,
BM-01,BM-02,BM-02-1,BM-03,BM-03-1,BM-04,BM-04-T,BM-05,BM-05-T,BM-06,BM-06-1,BM-06-Y,BM-07,BM-08,
BM-08-Y,BM-09,BM-09-Y,BM-10,BM-10-Y,BM-11,BM-12,BM-19,BM-19-Y,
BM1-01,BM1-02,BM1-02-1,BM1-03,BM1-03-1,BM1-04,BM1-04-T,BM1-05,BM1-05-T,BM1-06,BM1-06-1,BM1-06-Y
BM1-07,BM1-08,BM1-08-Y,BM1-09,BM1-09-Y,BM1-10,BM1-10-Y,BM1-11,BM1-12,BM1-19,BM1-19-Y,
BE-01,BE-02,BE-03,BE-04,BE-05,BE-06,BE-09,BE-10,BE-11,BE-12,BE-17,BE-26,BE-27,BE-28,BE-29,BE-30,
BE-31,BE-36,BE-47,BE-48,BE-49,BE-50,BE-51,BE-146,
BSZ-01,BSZ-02,BSZ-03,BSZ-04,BSZ-05,BSZ-06,BSZ-09,BSZ-10,BSZ-11,BSZ-12,BSZ-17,BSZ-26,BSZ-27,BSZ-
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21,C-22,C-23,C-24,C-25,C-26,C-27,C-28,C-29,C-30,
CM-04,CM-05,CM-06,CM-09,
CS-01,CS-02,CS-03,CS-04,CS-05,CS-06,CS-09,CS-10,CS-11,CS-12,CS-17,CS-26,CS-27,CS-28,CS-29,CS-30,
CS-31,CS-47,CS-36,CS-47,CS-48,CS-49,CS-50,CS-51,CS-146,
EA-01,EA-02,EA-03,EA-04,EA-05,EA-06,EA-07,EA-08,EA-09,EA-10,EA-11,EA-12,EA-13,EA-14,EA-15,
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EH-01,EH-02,EH-03,EH-04,EH-05,EH-06,EH-07,EH-08,EH-09,EH-10,EH-11,EH-12,EH-13,EH-14,EH-15,
EK-01,EK-02,EK-03,EK-04,EK-05,EK-06,EK-07,EK-08,EK-09,EK-10,EK-11,EK-12,EK-13,EK-14,EK-15,
EM-01,EM-02,EM-03,EM-04,EM-05,EM-06,EM-07,EM-08,EM-09,EM-10,EM-11,EM-12,EM-13,EM-14,EM-15,
EN-01,EN-02,EN-03,EN-04,EN-05,EN-06,EN-07,EN-08,EN-09,EN-10,EN-11,EN-12,EN-13,EN-14,EN-15,
ELE-01,ELE-02,ELE-03,ELE-04,ELE-05,ELE-06,ELE-09,ELE-10,ELE-11,ELE-12,ELE-17,ELE-26,ELE-27,ELE-28,
ELE-29,ELE-30,ELE-31,ELE-36,ELE-47,ELE-47,ELE-48,ELE-49,ELE-50,ELE-51,ELE-146,
EP-01,EP-02,EP-03,EP-4,EP-05,EP-06,EP-09,EP-10,EP-11,EP-12,EP-17,EP-26,EP-27,EP-28,EP-29,EP-30,EP-
31,EP-36,EP-47,EP-48,EP-49,EP-50,EP-51,EP-146,
FB-01,FB-02,FB-03,FB-04,FB-05,FB-06,FB-09,FB-10,FB-11,FB-12,FB-17,FB-26,FB-27,FB-28,FB-29,FB-30,FB-
31,FB-36,FB-47,FB-47,FB-48,FB-49,FB-50,FB-51,FB-146,
FCM-01,FCM-02,FCM-03,FCM-04,FCM-05,FCM-06,FCM-07,FCM-08,FCM-09,FCM-10,FCM-11,FCM-12,FCM-13,
FCM-14,FCM-15,FCM-16,FCM-17,FCM-18,FCM-19,FCM-20,FCM-21,FCM-22,FCM-23,
FYKB-01,FYKB-02,FYKB-03,FYKB-04,FYKB-05,FYKB-06,FYKB-09,FYKB-10,FYKB-11,FYKB-12,FYKB-17,FYKB-
26,FYKB-27,FYKB-28,FYKB-29,FYKB-30,FYKB-31,FYKB-36,FYKB-47,FYKB-47,FYKB-48,FYKB-49,FYKB-50.
FYKB-51.FYKB-146,
FYKH-01,FYKH-02.FYKH-03.FYKH-04,FYKH-05,FYKH-06,FYKH-09,FYKH-10,FYKH-11,FYKH-12,FYKH-17,
FYKH-26.FYKH-27.FYKH-28.FYKH-29,FYKH-30.FYKH-31.FYKH-36,FYKH-47,FYKH-48.FYKH-49.FYKH-50.
FYKH-51.FYKH-146,
FMB-01,FMB-02,FMB-03,FMB-04,FMB-05,FMB-06,FMB-09,FMB-10,FMB-11,FMB-12,FMB-17,FMB-26,FMB-27,
FMB-28,FMB-29,FMB-30,FMB-31,FMB-36,FMB-47,FMB-48,FMB-49,FMB-50,FMB-51,FMB-146,
FM-01,FM-02,FM-03,FM-04,FM-05,FM-06,FM-09,FM-10,FM-11,FM-12,FM-17,FM-26,FM-27,FM-28,FM-29,FM-30,
FM-31,FM-36,FM-47,FM-48,FM-49,FM-50,FM-51,FM-146,
FMMB-01,FMMB-02,FMMB-03,FMMB-04,FMMB-05,FMMB-06,FMMB-09,FMMB-10,FMMB-11,FMMB-12,FMMB-
17,FMMB-26,FMMB-27,FMMB-28,FMMB-29,FMMB-30,FMMB-31,FMMB-47,FMMB-47,FMMB-48,FMMB-49,
FMMB-50,FMMB-51.FMMB-146,
FL-01,FL-02,FL-03,FL-04,FL-05,FL-06,FL-09,FL-10,FL-11,FL-12,FL-17,FL-26,FL-27,FL-28,FL-29,FL-30,FL-31,FL-
36,FL-47,FL-47,FL-48,FL-49,FL-50,FL-51,FL-146,
H-01,H-02,H-03,H-04,H-05,H-06,H-07,H-08,H-09,H-10,H-11,H-12,H-13,H-14,H-15,H-16,H-17,H-18,H-19,H-20,H-
21,H-22,H-23,H-24,H-25,H-26,H-27,H-28,H-29,H-30,
LC-01,LC-02,LC-03,LC-04,LC-05,LC-06,LC-09,LC-10,LC-11,LC-12,LC-17,LC-20,LC-26,LC-27,LC-28,LC-29,LC-
30,LC-31,LC-36,LC-47,LC-48,LC-49,LC-50,LC-51,LC-146,
LCQ-01,LCQ-02,LCQ-03,LCQ-04,LCQ-05,LCQ-06,LCQ-09,LCQ-10,LCQ-11,LCQ-12,LCQ-17,LCQ-26,LCQ-27,
LCQ-28,LCQ-29,LCQ-30,LCQ-31,LCQ-36,LCQ-47,LCQ-48,LCQ-49,LCQ-50,LCQ-51,LCQ-146,
LQ-01,LQ-02,LQ-03,LQ-04,LQ-05,LQ-06,LQ-09,LQ-10,LQ-11,LQ-12,LQ-17,LQ-26,LQ-27,LQ-28,LQ-29,LQ-30,LQ-
31,LQ-36,LQ-47,LQ-48,LQ-49,LQ-50,LQ-51,LQ-146,
K-01,K-02,K-03,K-04,K-05,K-06,K-07,K-08,K-09,K-10,K-11,K-12,K-13,K-14,K-15,K-16,K-17,K-18,K-19,K-20,K-21,
K-22,K-23,K-24,K-25,K-26,K-27,K-28,K-29,K-30,
KZ-01,KZ-02,KZ-03,KZ-04,KZ-05,KZ-06,KZ-07,KZ-08,KZ-09,KZ-10,
M-01,M-02,M-02-1,M-03,M-03-1,M-04,M-04-T,M-05,M-05-T,M-06,M-06-1,M-06-Y,M-07,M-08,M-08-Y,M-09,M-09-
Y,M-10,M-10-Y,M-11,M-12,M-19,M-19-Y,
MA-01,MA-02,MA-03,MA-04,MA-05,MA-06,MA-09,MA-10,MA-11,MA-12,MA-27,MA-28,MA-29,MA-30,MA-31,MA-
36,MZ-01,MZ-02,MZ-03,MZ-04,MZ-05,MZ-06,MZ-09,MZ-10,MZ-11,MZ-12,MZ-27,MZ-28,MZ-29,MZ-30,MZ-31,

PJ-01,PJ-02,PJ-03,PJ-04,PJ-05,PJ-06,PJ-09,PJ-10,PJ-11,PJ-12,PJ-17,PJ-26,PJ-27,PJ-28,PJ-29,PJ-30,PJ-31,PJ-36,
Q-01,Q-02,Q-03,Q-04,Q-05,Q-06,Q-07,Q-08,Q-09,Q-10,Q-11,Q-12,Q-13,Q-14,Q-15,Q-16,Q-17,Q-18,Q-19,Q-20,Q-21,Q-22,Q-23,Q-24,Q-25,Q-26,Q-27,Q-28,Q-29,Q-30,Q-31,Q-32,Q-33,Q-34,Q-35,Q-36,Q-37,Q-38,Q-39,Q-40,Q-41,Q-42,Q-43,Q-44,Q-45,Q-46,Q-47,Q-48,Q-49,Q-50,
SPJ-01,SPJ-02,SPJ-03,SPJ-04,SPJ-05,SPJ-06,SPJ-09,SPJ-10,SPJ-11,SPJ-12,SPJ-17,SPJ-26,SPJ-27,SPJ-28,SPJ-29,SPJ-30,SPJ-31,SPJ-36,
SZ-01,SZ-02,SZ-03,SZ-04,SZ-05,SZ-06,SZ-09,SZ-10,SZ-11,SZ-12,SZ-17,SZ-26,SZ-27,SZ-28,SZ-29,SZ-30,SZ-31,SZ-36,SZ-47,SZ-48,SZ-49,SZ-50,SZ-51,SZ-146,
VL-01,VL-02,VL-03,VL-04,VL-05,VL-06,VL-09,VL-10,VL-11,VL-12,VL-17,VL-26,VL-27,VL-28,VL-29,VL-30,VL-31,VL-36,VL-47,VL-48,VL-49,VL-50,VL-51,VL-146,
VS-01,VS-02,VS-03,VS-04,VS-05,VS-06,VS-09,VS-10,VS-11,VS-12,VS-17,VS-26,VS-27,VS-28,VS-29,VS-30,VS-31,VS-36,VL-47,VL-48,VL-49,VL-50,VL-51,VL-146,
W-01,W-02,W-03,W-04,W-05,W-06,W-09,W-10,W-11,W-12,W-17,W-26,W-27,W-28,W-29,W-30,W-31,W-36,W-47,W-48,W-49,W-50,W-51,W-146,
W-FCM-01,W-FCM-02,W-FCM-03,W-FCM-04,W-FCM-05,W-FCM-06,W-FCM-07,W-FCM-08,W-FCM-09,W-FCM-10,W-FCM-11,W-FCM-12,W-FCM-13,W-FCM-14,W-FCM-15,W-FCM-16,W-FCM-17,W-FCM-18,W-FCM-19,W-FCM-20,W-FCM-21,W-FCM-22,W-FCM-23,
X-01,X-02,X-03,X-04,X-05,X-06,X-07,X-08,X-09,X-10,X-11,X-12,X-13,X-14,X-15,X-16,X-17,X-18,X-19,X-20,X-21,X-22,X-23,X-24,X-25,X-26,X-27,X-28,X-29,X-30,X-05-Z,
Z-FCM-01,Z-FCM-02,Z-FCM-03,Z-FCM-04,Z-FCM-05,Z-FCM-06,Z-FCM-07,Z-FCM-08,Z-FCM-09,Z-FCM-10,Z-FCM-11,Z-FCM-12,Z-FCM-13,Z-FCM-14,Z-FCM-15,Z-FCM-16,Z-FCM-17,Z-FCM-18,Z-FCM-19,Z-FCM-20,Z-FCM-21,Z-FCM-22,Z-FCM-23,
Z-01,Z-02,Z-03,Z-04,Z-05,Z-06,Z-07,Z-08,Z-09,Z-10,Z-11,Z-12,Z-13,Z-14,Z-15,Z-16,Z-17,Z-18,Z-19,Z-20,
but the circuit and the electronic construction do not change, declared by the manufacturer.

Copy of marking plate:

See Rating Label

Summary of testing:

This test report complies with EN 60669-1

Test Report Content

Main report

Annex I: Photo Documentation, 50 page(s)

Test item particulars:

Degree of protection against access to
hazardous parts and against harmful ingress IP2X
of solid foreign objects

Degree of protection against harmful ingress IPX0
of water

Test case verdicts:

Test case does not apply to the test object: N/A
Test object does meet the requirement: Pass (P)
Test object does not meet the requirement ...: Fail (F)

Testing:

Date of receipt of test item: January 11,2024
Date(s) of performance of test: January 11,2024 to January 15,2024

General remarks:

The test results presented in this report relate only to the item(s) tested.
This report shall not be reproduced, except in full, without the written approval of the testing laboratory.
"(see remark #)" refers to a remark appended to the report.
"(see Annex #)" refers to an annex appended to the report.
"(see appended table)" refers to a table in the Test Report.
Throughout this report a comma (point) is used as the decimal separator.

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
8	Marking		-
8.1	On main part:		-
	- rated current or rated fluorescent lamp (A or AX)	Max 10A	
	- rated voltage (V).....	250V	
	- smbole for nuature	~	
	- manufacturer's or responsilble vendor's name, trademark or identification mark.....	Wenzhou Boden Electric Co., Ltd.	
	- type reference.....	A-01	
	- symbol for mini gap (m).....		N
	- symbol for semii-condcutor switching device		-
	- switches for degree of protection IP	IP20	P
	- switches with screwless terminal (rigid conductors)	Special connectors	
	- minimum current (A) / load (VA/W)		N
	- rating and type of any fuse incorporated in the electronic switch		N
	- kind of load		P
	- "extension unit"		N
	- minimum height for mounting the switch (in installation instructions)		N
8.3	Markings: on other parts:		
	- parts sold separately: manufacturer's name		P
	- type reference		P
	Symbol IP marked on outside, easily discernible		N
	Indications clearly visible and easily legible		P
	Indications not on parts removable without tool		P
8.4	Terminals for phase conductors, identified or self evident or wiring diagram	Written on special connectors L, N	P
	Switches 2, 3, 03, 6/2 of same polarity, similar identification		N
	Indications not on screws or removable parts		N
8.5	Terminals for neutral conductors: N		P
	Earthing terminals: symbol		N
	Not placed on screws or removable parts		P
	Equipment terminals: symbol IEC 417 or colour; physical dimension		P
8.6	Patlern numbers 2, 3. 03; switches > 250 V or > 16	ON / OFF	N

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	A: direction of movement of actuating member or switch position clearly		
	Indications clearly visible on front of switch		N
	Not possible to fix cover or cover plate in an incorrect position		N
8.7	Red colour only for push-button to open the circuit		N
8.8	Special precautions, in instruction sheet		P
8.9	Marking durable and easily legible: 15s water; 15 s hexane		P
9	CHECK OF DIMENSIONS		
	Switches and boxes comply with Standard Sheet		N
	Specify type of boxes for switches mounting	Surface type mounting	N

10	PROTECTION AGAINST ELECTRIC SHOCK		
10.1	Live parts not accessible		P
10.2	Operating means of insulating material, unless		
	- accessible metal parts separated by double or reinforced insulation, or		N
	- reliably connected to earth		N
	- protective impedance		N
10.3	Accessible parts < 16 A: insulating material		P
10.3,1	Covers or cover plates and other parts of enclosures protected by additional insulation		P
	Adequately fixed and correctly designed		P
103.2	Earthing of metal covers or cover plates: connection low resistance: 1 (A); resistance ^ U, 2		N
10.4	Metal parts of mechanism not insulated from live parts not protrude from enclosure		N
	Key or similar, insulated from live parts		N
10.5	Metal parts of mechanism:		
	- not accessible and insulated from accessible metal parts		N
	- separated from live parts		N
10,6	Key or intermediate part touch parts insulated from live parts		N
	Insulated from metal parts of mechanism		N
10.7	Cord operated, impossible to touch live parts		N
10.101	Removal of cover without the use of a tool: protection assured		N
10.102	Hole for adjusting the setting of the electronic switch : no risk of electric shock	Learn button	P

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
10.103	Ventilation opening : test pin figure 101b		P

111.	PROVISION FOR EARTHING		
11.1	Accessible metal parts connected to an earthing terminal		N
11.2	Earthing terminals: screw clamping, comply with Cl. 12	Special connector	P
	Capacity not less than supply terminal		P
	External earthing terminal suitable for 6 mm ^a		N
11.3	Provision with an internal earthing terminal		P
11.4	Earthing connection: I (A); resistance < 0,05 Q... :		N

12	TERMINALS (special connectors)		
12.1	Screw clamping.....	pillar / screw / stud / saddle / lug 1 mantle	—
	Screwless terminal.....:		N
	Not serve to fix any other component		N

12,2	Terminals with screw clamping for external copper conductors:		-
12.2.1	rated <i>current</i> (A).....		-
	- nominal cross-sectional areas (mm ²).....		-
	- conductor space D: diameter (mm); figure		-
12.2.2	Connection without special preparation		N
12.2.3	Terminals: adequate mechanical strength		N
	Screws and nuts ISO or similar		N
	Screws not of soft metal or liable to creep		N
12.2.4	Terminals resistant to corrosion		N
12.2.5	Terminals clamp conductor without damage:		
	- smallest cross-sectional area (mm ²); torque (Nm); height H (mm); mass (kg).....		
	- largest cross-sectional area (mm ²); torque (Nm); height H (mm); mass (kg).....		— -
12.2.5	During the test: conductor does not slip out or break		N
12.2.6	Conductors connected between metal surfaces:		

	- smallest cross-sectional area (mm ²); torque (Nm)		
	- largest cross-sectional area (mm ²); torque (Nm) :		
	- pull test: pull (N) for 1 min.....		

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Clause	Requirement – Test	Result	Verdict
	During the test: conductor does not move noticeably		N
12.2.7	Conductors do not slip out		N
	Cross-sectional area (mm ²).....	1 x / 7 x	:—
	Number of conductors		— :
	Tc.^Uo (Nj.j)..... :		N
	After the test, no wire escaped		N
12.2.8	Terminals shall not work loose: tightened and loosened 5 times; diameter (mm); torque (Nm)		—
	During the test: terminals shall not work loose		N
12.2.9	Earthing terminals, adequately locked against loosening. Loosening only by tool		N
12.2.10	Earthing terminals, no risk of corrosion:		
	- body of brass or other resistant material		N
	- precaution to avoid risk of corrosion		N
12.2.11	Pillar terminate distance g (mm)..... :		N
	Mantle terminals: distance (mm)		N
12.2.12	Lug terminals only for I (A) 40 A and 63 A		N
12.3	Screwless terminals	(see Appendix I)	N
	Screwless terminals : CENELEC approved types		
13	CONSTRUCTIONAL REQUIREMENTS		
13.1	Insulating lining: adequate mechanical strength and secured in reliable manner		P
13.2	Switches permit:		
	- easy introduction and connection of conductors		P
	- correct positioning of the conductors		P
	- easy fixing of base to a wall or in a box		P
	- adequate space between underside of base		N
	Surface-type: fixing means do not damage insulation of the cable		N
	Type A: easy positioning and removal of cover or cover plate		N
13.3	Covers, cover plates and actuating members:		
	- held in place at two or more points	Cover of box by 2 points	P
	- fixed by single fixing, if located by another means		N
	Type A: base in position after removal of covers		N
13.3.1	Covers, fixing screw type: inspection		N
13.3.2	Covers, fixing not dependent on screws: accessibility:		

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Clause	Requirement – Test	Result	Verdict
	- to live parts (20.4)		P
	- to non-earthed metal parts (20.5)		N
	- to insulating parts, or earthed metal parts or metal parts, or live parts SELV (20.6)		N
13.3.3	Covers, removal by tool: see 13.3.2		P
13.4	Free openings according to 10.102 and 10.103		N
13.5	Knobs or electronic switches securely fixed Indication of position		N
	Axial pull: pull 30N/15N for 1 min ; Axial push : 30N for 1 min		N
	During and after the test, - knob shall not become detached no l'-, . .ji,-		N
13.6	Fixing devices: accessible from the front, not serving any other fixing purpose		P
13.7	Combinations ensure correct position		N
	Fixing of each base independent		N
13.8	Accessories combined: comply with their standard		P
13.9	Protected switches: totally enclosed		N
	Drain hole: diameter > 5 mm or 20 mm ² (w/1 > 3 mm).....		N
	Correctly positioned		N
	Lid springs resistant to corrosion		N
13.10	Conductors ends, prepared after mounting box, but before mounting switch in box		N
13.11	Protected surface switches, 1, 5 and 6 provided with additional terminal		N
13.12	Correct introduction of conduit or protective covering at least 1 mm		N
	Conduit entries: sizes 16, 20, 25 or 32 or a combination at least of two of them		N
	Cable entries: cables as in Table 11 or specified by manufacturer; diameter (mm).....		N
13.13	Provision for back entry		N
13.14	Membranes or like replaceable		N
13.15.1	Membranes, lenses and the like reliably fixed; temperature 40 °C for 2 h; force 30 N by test finger		N
	No deformation, live parts not accessible		N
	Axial pull: pull 30 N for 5 s, mnmbbranp'? shall not come out		N
	Repetition of tests, on new membranes		N
13.15.2	Refrigerator -15 °C for 2 h, no damage		N
	Possibility to introduce cable		N
13.16	Flexible cable outlet: accept max. dimension of cable (245 IEC 66 or 227 IEC 53); diameter (mm) :		N
	Pull test: cable 227 IEC 52/53, cross-sectional area 1,5 mm ² ; torque (Nm); pull 30 N 25 times...		N

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Clause	Requirement – Test	Result	Verdict
	Torque test: torque 0,15 Nm for 1 min, not displaced < 2 mm.....		N
	Pull test: cable 245 IEC 66, diameter (mm) of cable; pull 60 N 25 times.....;		N
	Torque test: torque 0,35 Nm for 1 min, not displaced < 2 mm..... :		N
	2000 Va.c. for 1 min		N
	No breakdown or flashover		N
	Cord anchorage suitable for different cables		N
	Earthing connection: ample space for slack		N
13.102	Micro disconnection of automatic protective devices		N
	Non self-resetting cut-outs for motor speed controls		N
13.103	Angle between positive and negative max.±2° for electronic switches for iron core transformers		N
14	MECHANISM		
14.1	Actuating member: automatic return in position	RF-remote controlled	N
14.2	Switches rest only in ON and OFF position	Relays	P
	Intermediate position, insulation adequate		N
14.3	No undue arcing in slowly operation		N
14.4	Make and break simultaneous for all poles		N
	Neutral pole make before and break after		N
14.5	Action not influenced by position of cover		N
14.6	Cord operated: change from OFF to ON with a pull 45 N vertically, and 65 N at 45°		N
15	RESISTANCE TO AGEING. TO HARMFUL INGRESS OF WATER AND TO HUMIDITY		
15.1	Switches resistance to ageing at temperature 70 °C for 7 days (168 h)		P
	After the test, no crack visible, and no traces of clothes		P
15.2	IP test: according to EN 60 529	IP20	P
	Electric strength (16.2)		P
15.3	Humidity treatment: duration 2 days or 7 days	2 days	P
16	INSULATION RESISTANCE AND ELECTRIC STRENGTH		
16.1	Insulation resistance: 500 V d.c. for 1 min:		
	1) between all poles connected together and body > 5 MQ.....:	> 5 MQ	P

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Clause	Requirement – Test	Result	Verdict
	2) between each pole in turn and all other > 2 MQ :	> 2 MQ	P
	3) between terminals with switch in OFF position > 2 MQ..... :	> 2 MQ	P
	- normal/mini-gap > 2 MQ.....		N
	- micro-gap > 2 MQ.....	> 2 MQ	P
	4) Between metal parts of mechanism, and:		
	- live parts > 5 MQ.....		N
	- metal foil in contact of surface > 5 MQ.....		N
	- key of key operated switches > 5 MQ		N
	- point of anchorage of the cord > 5 MQ.....		N
	- accessible metal parts > 5 MQ		N
	5) between metal enclosure and metal foil > 5 MQ :		N

16.2	Electric strength: test voltage a.c. for 1 min:		
	1)..... :	4000 V	P
	2)..... :	4000 V	P
	3)..... :	500 V	P
	4)..... :		N
	5)..... :		N
	6) live parts and accessible metal parts		N
	7) live parts and metal parts of mechanism:		
	- between live parts and earthing (basic).....	2000 V	P
	-..... :		N
	8) live parts and metal knobs.....		N
	No flashover or breakdown		P

17	TEMPERATURE RISE		
	Rated current (A) or Rated Load (WA/A) (with electronic switch short-circuited).....	Measurement 1: Outputs loaded with 4x4 A (total 16 A) Measurement 2: Output loaded with 1 x 16 A	
	Test current (A) and Test Voltage (V) (with electronic switch short-circuited).....	253 V	
	Cross-sectional area (mm ²)..... :	1,5 mm ²	
	See table 102 -Temperature rise of the supply terminals: <= 55 K	Measurement 1	P

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Clause	Requirement – Test	Result	Verdict
	-Temperature rise of load terminals: < 55 K -Temperature rise of transformer: < 75 K -Temperature rise of enclosure: < 70 K -Temperature rise of printed wiring board: < 130 K -Temperature rise of ambient relay: < 55 K -Temperature rise of internal wiring: < 70 K	38 k 16 k 28 k 18k 26 k 23 k	
	Setting for maximum T rise (V,A,W/VA,coso)		—
	During the test no operation of protective device State may not change		P
	Operating conditions after the test		P
	During the test no operation of protective device State may not change		P
	Operating conditions after the test		P

18	MAKING AND BREAKING CAPACITY		
	Relays		
	Rated current (A) / Rated load (WA/A).....:	15 A	
	Rated voltage (V):-	250 V-	
	Pattern number; 200 operations	200	
18.1	Test current 1,25 In (A); test voltage 1,1 Un (V); cos Ø 0,3	15.25 A; 250V; 0,3	
	During the test, no sustained arcing occur		

	After the test, no damage		P
18.2	Tungsten filament lamps test: test voltage Un (V); test current 1,2 In (A); number of lamps; number .	250 V; 23 lamps	
	During the test, no sustained arcing nor welding of the contacts occur		P
	After the test, no damage		P
18.101	Contact mechanism closes circuit 9 in cosØ, 8 and opens a circuit of 6In cosØ0,6; 50 cycles	18 A closed 12 A open	P
	During the test, no sustained arcing nor welding of the contacts occur		P
	After the test, no damage impairing further use		P
18.102	Test on electronic switches for low voltage incandescent lamps	iron-core 120 VA, 50 cycles	P

19	NORMAL OPERATION		
	Relays		
19.1	Contact mechanism in electronic switches Test voltage Un (V); test current In (A); load (W/VA): cos Ø	250 V Max 15 A	
	Number of operations	40 000	

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Clause	Requirement – Test	Result	Verdict
	Selector switch S1 moved after.....		—
	Rotary switches : 3/4 in clockwise 1/4 reverse		N
	Contact mechanism closes circuit 6In cos00,65 and opens a circuit of In cosa0.65		P
	After the test, no damage impairing further use		P
19.2	Semiconductor switching devices Test voltage 1,1 Un ; Rated load (W/VA)		N
	State changed 10 times and/or setting altered 10 times		N
	State changed 10 times and/or setting changed 10 times by means of an electronic extension unit		N
19.3	Mechanical control units incorporated in electronic switches Testvoltage 1,1 Un , load as in clause 17 (W/VA)		N
	Setting value altered 10000 times from minimum to maximum and back to minimum (rated 10 -15 times/min.)		N
19.4	Electronic switches with minimum load Testvoltage 0,9Un ; minimum load (W/VA)		N
	Setting value altered from minimum to maximum and back to minimum (10 times)		N
	State altered ON/OFF (10 times)		N
	Repetition with electronic extension unit		
19	During the tests of clause 19, specimens function correctly		P
	After the tests of clause 19, electric strength as in Cl. 16, reducing the test voltage by 500 V and 1000 V		P
	After the tests of clause 19, T°rise as in Cl17 -Temperature rise of the terminals: 5 55 K -Temperature rise of windings : -Temperature rise of parts wich may come into contact with cable insulation (in case of repetition: samples 4. 5, 6)	terminals : < 55 k enclosure: < 55 k	P

20	MECHANICAL STRENGTH		
	Switches, boxes and screwed glands adequate mechanical strength		P
20.1	Switches and boxes: impact test: 9 blows:		
	- height of falls: 100 mm		N
	- height of falls: 150 mm		N
	- height of falls: 200 mm		N
	- height of falls: 250 mm		P
	After the test, no damage; live parts not accessible		P
20.2	Ordinary surface type: diameter (mm) of cylinder .		—
	Torque test: torque (Nm) :	0,5 Nm /1,2 Nm	—
	After the test, bases show no damage		N

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Clause	Requirement – Test	Result	Verdict
20.3	Screwed glands..... :	metal / moulded material	—
	Test rod diameter (mm); torque (Nm)		—
	After the test, no damage		N
	Verification of the non-removal of covers, cover plates <i>or</i> actuating members;		
	force 40 N {comply with tests 20.7 and 20,8)		N
	force 80 N for others		P
	Force applied for 1 min, covers etc., not come off		P
	Repetition on new samples, no damage		P

20.4.2	Verification of the removal of covers, cover plates or actuating members: force not exceeding 120 N, applied 10 times		P
	Covers etc., come off		P
	Repetition on new samples, no damage		P
20.5	Force 10 N (comply with tests 20.7 and 20.8)		N
	Force 20 N for others		N
20.6	Force 10 N for all covers etc.		N
20.7	Gauge 14b, distances (mm) between face C		N
20.8	Gauge 14e force 1 N, not enter more than 1 mm (mm)..... :		N
20.9	Cord switch: pull test: pull 100 N for 1 min (normal use): pull 50 N for 1 min (unfavourable)		N
	After the test, no damage, not broken		N

21	RESISTANCE TO HEAT		
21.1	Switches: test temperature 100 °C for 1 h:		
	- no damage, no live parts accessible		P
	- marking still legible		P
21.2	Ball-pressure test: test temperature 125 °C for 1 h; diameter of impression < 2 mm (mm)	printed wire board and terminals	P
21.3	Ball-pressure test: test temperature °C; diameter of impression 2 mm	enclosure material 75°C	P
22	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		
22.1	Connections, withstand mechanical stresses		N
	Thread-forming or thread-cutting screws, only supplied together		N
	Screws and nuts transmitting contact pressure, engagement in metal thread		N

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	Torque test.		-
	- 10 times for thread of insulating material		-
	- 5 times for others		-
	- diameter (mm); torque (Nm).....		-
	- diameter (mm); torque (Nm).....		-
	- diameter (mm); torque (Nm).....		-
	- diameter (mm); torque (Nm).....		-
22.2	Thread of insulating material: ensured correct introduction		N
22.3	Contact pressure not transmitted through insulating material, other than ceramic		P
22.4	Screws and rivets locked against loosening		N

22.5	Current-carrying parts and earthing:		
	- copper		N
	- alloy containing 58% copper for rolled sheet or 50% for other parts	>58 % cu	P
	- stainless steel containing 13% chromium		N
	- steel provided with coating of zinc (ISO 2081)		N
	- steel provided with coating of nickel and chromium (ISO 1456)		N
	- steel provided with coating of tin (ISO 2093)		N
	Current-carrying parts subjected to mechanical wear, not made of steel with coating		N
22.6	Sliding contact, metal resistant to corrosion		N
22.7	Thread-forming and thread-cutting screws not used for current-carrying parts		N

23	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		
23.1	Creepage distances:		
	1. between live parts separated with contact open > 3 mm (NA when placed after fuse if C) 104 OK) :		P
	2. between live parts of different polarity > 4 (3) mm (NA when placed after fuse if CI 104 OK) ... :		P
	3. between live parts and:		
	- accessible surfaces - o mm.....		P
	earthed metal parts > 3 mm	No such construction	N
	metal frame 3 mm:		N
	screws for fixing bases >3 mm.....		N
	- metal parts of mechanism > 3 mm.....		N
	4. between metal parts of mechanism, and:		

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	- screws for fixing bases > 3 mm.....		N
	- metal frames > 3 mm.....		N
	- accessible metal parts > 3 mm.....		N
	5. between live parts and unearthed metal parts > 6 mm (NA when placed after fuse if C1104 OK):		N
	Clearances:		
	6. between live parts separated with contact open > 3 mm (1.2) (NA when placed after fuse if C1104 OK):		
	7. between live parts of different polarity > 3 mm ..		P
	8. between live parts and:		
	- accessible surfaces > 3 mm.....		P
	- earthed metal parts > 3 mm		N
	- metal frames > 3 mm.....		N
	- screws for fixing bases > 3 mm.....		N
	- metal parts of mechanism > 3 mm.....		N

	9. between live parts and:		
	- earthed metal boxes > 2,5 mm.....	No such construction	N
	- unearthed metal boxes > 4,5 mm.....		N
	10. between metal parts of mechanism, and:		
	- screws for fixing bases > 3 mm.....		N
	- metal frames > 3 mm.....		N
	- accessible metal parts > 3 mm.....		N
	11. between live parts and surface > 6 mm.....		P
	12. between live parts and the bottom of the space > 3 mm		N
	Distances through insulating sealing compound: live parts covered with at least 2 mm and:		
	13. surface in which the b^sra is mounted > 4 mm :		N
	14 the bottom of the space > 2,5 mm		N
232	Insulating sealing compound not protrude above the edge		N
23.3	Surface type: no bare strips at back		N
24	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, FIRE AND TRACKING		
24.1.1	Glow-wire test at (650 °C): for parts not necessary to retain current-carrying parts of earthing circuit in position		P
	No visible flames and no sustained glowing, or if flame and glowing, extinguish within 30 s		P

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	No ignition of the tissue paper		P
	Glow-wire test at (850 °C): for parts necessary to retain current-carrying parts of earthing circuit in position		P
	No visible flames and no sustained glowing, or if flame and glowing, extinguish within 30 s		P
	No ignition of the tissue paper		P
24 2	Resistance to tracking (only for switches IP)		P
	50 drops, test voltage 175 V, solution A		P
	No flashover or breakdown		P
25	RESISTANCE TO RUSTING		
	10 min In a 10% solution of ammonium chloride; 10 min in humid ambient; 10 min in heating cabinet at 100 °C		P
	No signs of just		P

26	EMC REQUIREMENTS		
26.1	Immunity: $U_x (V)/P < . VA / 1 (A)$ With electronic switch short-circuited Tests in On-state lowest setting .highest setting Off-state lowest settin : highest setting		P
26.1.1	Voltage dips and short interruptions according IEC 1000-4		-
	3 V-interruptions duration 10 cycles		P
	3 V-dips 60%UT duration 10 cycles		P
	3 V-dips 30%UT duration 10 cycles		P
	After the test the state and setting shall be unchanged		P
26.1.2	Surge (1,2/50ps) according IEC 1000-4-5		
	Level 2/10 times 1kV / interval 30sec.		P
	During the test the state and setting shall not alter		P
	After the test the state and setting shall be unchanged		P
26.1.3	Electrical fast transients according to IEC61000-4-4		-
	Supply terminals 1 kV / Control terminals 0,5kV Polarity : Alternate / Duration 1 min.		P
	After the test the state and setting shall be unchanged (see note)		P
26.1.4	Electrostatic discharge test according to IEC1000-4-2		P
	Contact discharge 4kV Air discharge 8kV 1 positive /1 negative at 10 points		P
	After the test the state and setting shall be unchanged (see notes)		P

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
26.1.5	Radiated electromagnetic field test IEC 1000-4-3 (test spec. ENV 50140)		
	Field strength 3V/m		P
	After the test the state and setting shall be unchanged		P
26.2	Emission		P
26.2.1	Low-frequency emission according to IEC 1000-3-2		P
26.2.2	Radio frequency emission according to EN 55014		P

104	ABNORMAL CONDITIONS		
104.1	Temperature rise test in abnormal conditions See table 102 second column		-
104.1.1	UT (V) / P (WA/A) /1 (A) With electronic switch short-circuited		P
104.1.1.1	Fault conditions : Short circuit: - across creepage distances and clearances - across insulating coating - or interruption of semiconductors devices - of electrolytic capacitors - or interruption of capacitors or resistors not complying with clause 105 - of the terminals on the load side	ok - ok ok ok ok	P
	See table 102 second column -Temperature rise of the terminals: < 110 K -Temperature rise of windings : -Temperature rise of parts wich may come into contact with cable insulation (in case of repetition: samples 4, 5, 6)	terminals : < 110 k enclosure : < 75 k	P
	in case of doubt: additional test (insured)		N
104.1.1.2	Overload tests		

	Without inc. temp. lim. device and without inc. fuses (IEC 127): 1h $i_{n,or}$ fuse (A)	Relay outputs: 25,6 A /1 h	P
	With inc. temp. lim. device and without inc. fuses (IEC127): 4h 0,95 $I_{release}$		N
	Without inc. temp. lim. device and with inc. fuses (60127): 30min 2 , $I_{ratedcurrent}$		P
	With inc. temp. lim. device and with inc. fuses (IEC60127): the lower load		N
	Relays		-
	See table 102 second column -Temperature rise of the terminals: < 110 K -Temperature rise of PCB: <130K -Temperature rise of parts wich may come into	88 k 90k 89 k 90k 50 k 40k	P

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	contact with cable insulation (in case of repetition: samples 4, 5, 6)		
104.2	Protection against electric shock even during fault conditions		P
	Electronic switches comply with requirements of clause 10		P
104.3	Short circuit test		P
	Protective current 1500A Un = (V)		
	Short circuit caused 6 times		P
	During the test, no emission of flames or burning particles		P
	After the test, accessible metal parts not live, contacts not welded		P
105	COMPONENTS		-
	Components comply with relevant IEC specification Use according to markings		P
105.1	Fuses comply with IEC 60127		P
105.2	Capacitors - adequate dielectric strength - marked with rated voltage ; rated capacitance ; temperature - comply with IEC 65(shock hazard) and IEC 161 (radio interference)		P
105.3	Resistors - constant value under overload - comply with clause 14.1 of IEC 65		P
105.4	Automatic protective devices comply with IEC730		N
105.4.1	Cut-outs adequate making and breaking capacity Temperature if T>55 C		P
105.4.1.1	Non-self-resetting cut-outs 10 cycles : - 1,1Un {V} - 2,1 In of fuse - If of fuse For motor speed controls 2 times 10 cycles : - First series : closes 9 In cosØ 0,8±0,05 - Second series : opens 6 In cosØ 0,6±0,05		N
105.4.1.2	Self-resetting cut-outs 200 cycles : - 1,1 Un (V) - 2,1 In of fuse - If of fuse		N

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	During tests 105.4.1 no sustained arcing		N
	After tests 105.4 1 no damage impairing further use		N
	Additional test Test-voltage / Duration 1 min.		N
105.4.2	Automatic protective devices 10 cycles: -4h Ip At the end of this period : Ip = 2,1 In of fuse or If of fuse		N
	Additional test according to clause 17		N

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS		-
7 1.7	BELGIUM. GERMANY, FINLAND, NETHERLANDS. NORWAY, SWEDEN: design B: not used due to installation practice		N
8,1	DENMARK: symbol for earth of any space provided for an earthing terminal.....		N
	UNITED KINGDOM: marking of type reference is not used		N
8.3	UNITED KINGDOM: marking of type reference is not used		N
10.2	DENMARK, NORWAY: due to the lack of an earthing conductor in many existing old buildings: earth connection cannot normally be used		N

10.3	DENMARK: enclosures, including covers and cover plates may be made of metal:		
	- ordinary switches comply with 10.3.1		N
	- switches with > IPxO comply with 10.3.1 or 10.3.2		
10.3,2	DENMARK, NORWAY: due to the lack of an earthing conductor in many existing old buildings, earth connection cannot normally be used		N
105	DENMARK, NORWAY: due to the lack of an earthing conductor in many existing old buildings: earth connection cannot normally be used		N
12.2.6	DENMARK, FINLAND, NORWAY, SWEDEN: additional test with one rigid solid conductor and one rigid stranded conductor with same cross-sectional areas connected at same time is required for terminals for two conductors		N
13.15.2	DENMARK, FINLAND. NORWAY. SWEDEN, SWITZERLAND: this subclause is mandatory		N
105.1	UNITED KINGDOM fuses according to BS. 646 are deemed to satisfy this requirement		N

zc	ANNEX ZC, A - DEVIATIONS		-
11.2	BELGIUM: capacity not less than that of corresponding terminals for the supply conductors except that any additional external earthing terminal shall be of a size suitable for conductors of		N

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
	at least 4 mm ²		
	APPENDIX I: screwless terminals for external copper conductors		-
12.3	SCREWLESS TERMINALS FOR EXTERNAL COPPER CONDUCTORS CENELEC approved terminals		-
12.3.1	Terminal		-
12.3.2	Terminals allow proper connection		-
12.3.3	Connection without special preparation		N
12.3.4	Parts for carrying current, material as in 22.5		N
12.3.5	Contact pressure without damage of conductor		N
12.3.6	Insertion and disconnection, clear		N
	Disconnection, not use a pull; manual operation with or without a tool		N
	Openings <i>ioi</i> using a tool, not possible to confuse		N
12.3.7	Terminals for two or more conductors:		-
	- during insertion, clamping independent		N
	- during disconnection, same time or separately		N
	- each conductor introduced in separate clamping		N
	- clamp securely any number of conductors as designed		N
12.3.8	Undue insertion of conductor is prevented		N
	No reduce of creepage distances or clearances		N
12.3.9	Terminals properly fixed to the switch		N
	Not work loose during insertion and disconnection		N
12.3.10	Terminals withstand mechanical stresses:		-
	- rigid: min. cross-sectional area (mm ²)		-
	- rigid: max. cross-sectional area (mm ²)		-
	- flexible: min. cross-sectional area (mm ²).....		-
	- flexible: max. cross-sectional area (mm ²).....		-
	Pull test: pull 30 N for 1 min; 5 times.....		N
	During the test, not move noticeably		N
	After the tests, not worked loose and no deterioration		N

EN 60669-1			
Clause	Requirement – Test	Result	Verdict
12.3.11	Electrical and thermal stresses:		
	a) five terminals: rated current (A); test current (A) for 1 h; cross-sectional area (mm ²); voltage drop < 15 mV (mV).....	1) 2) 3) 4) 5)	N
	b) 192 temperature cycles: test current (A).....		N
	Voltage drop <22,5 mV or mV.....		N

Terminal no.	Cycle(s)							
	24	48	72	96	120	144	168	192
1								
2								
3								
4								
5								

	After the test, no deformation, no cracks		N
12.3.12	Rigid solid conductor: deflection test; test current I (A).....:		-
	1 st sequence: cross-sectional area (mm ^a); force (N).....		-

sample No.	directions											
	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												

	Voltage drop < 25 mV		N
	2nd est sequence: cross-sectional area (mm ³); force (N)		-

sample No.	directions											
	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												

	Voltage drop < 25 mV		N
--	----------------------	--	---

Type of equipment: switch

Details of: CS-01 1 gang 1 way switch

View:

☒ general

☐ front

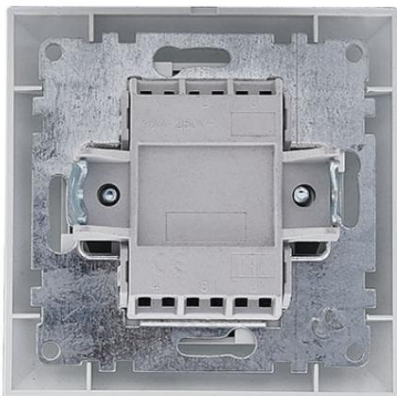
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Details of: CS-2 2 gang 1 way switch

View:

☒ general

☐ front

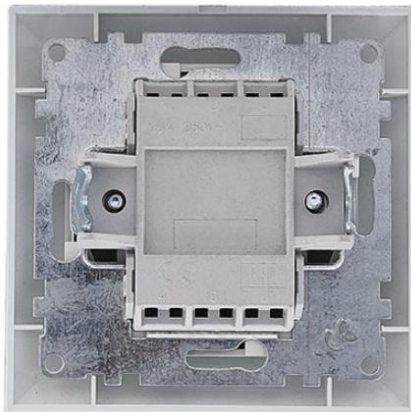
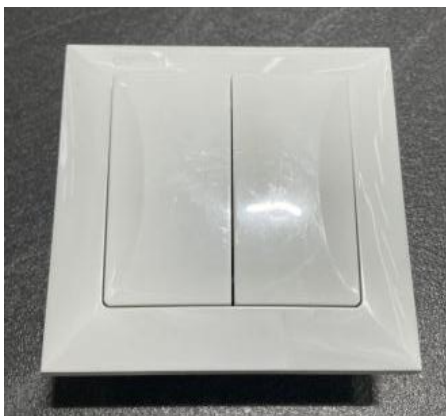
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Details of: CS-17 3 gang 1 way switch

View:

☒ general

☐ front

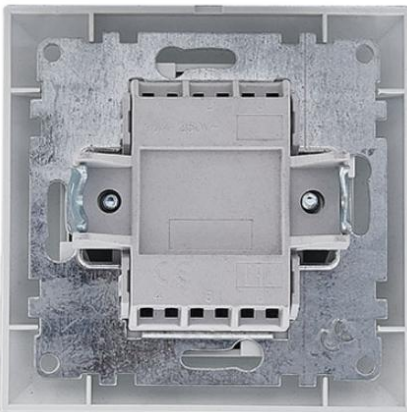
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Details of: CS-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

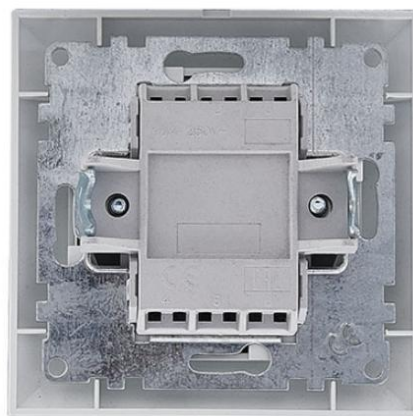
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Details of: CS-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

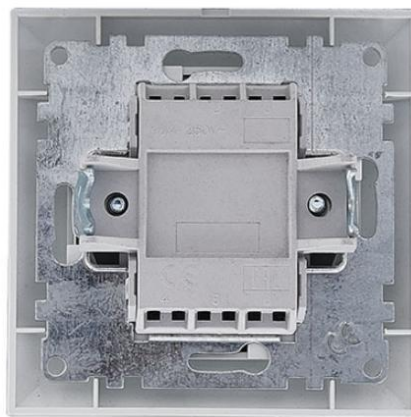
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Details of: CS-06 Doorbell switch

View:

☒ general

☐ front

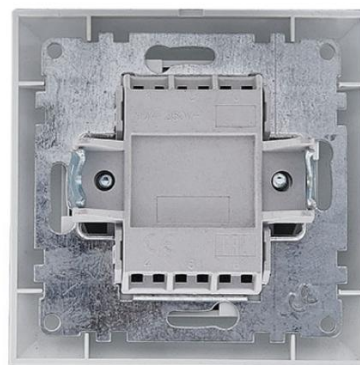
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Details of: CS-11 1 gang 2 way switch

View:

☒ general

☐ front

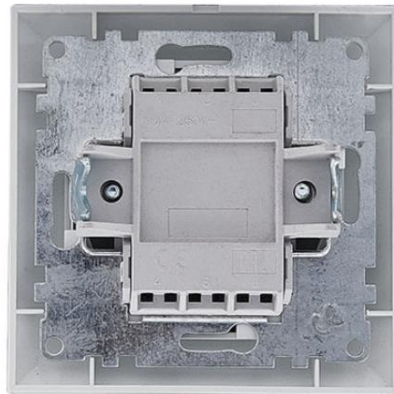
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Details of: CS-05 2 gang 2 way switch

View:

☒ general

☐ front

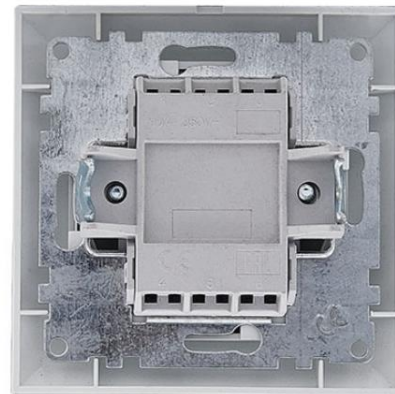
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Details of: A-01 1 gang 1 way switch

View:

☒ general

☐ front

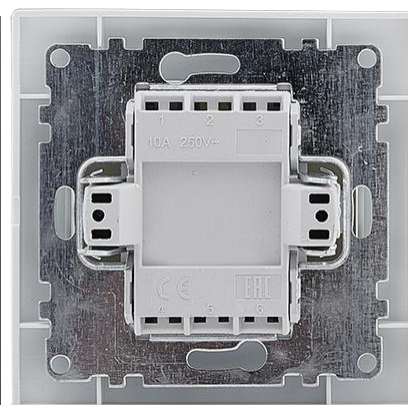
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Details of: A-02 2 gang 1 way switch

View:

☒ general

☐ front

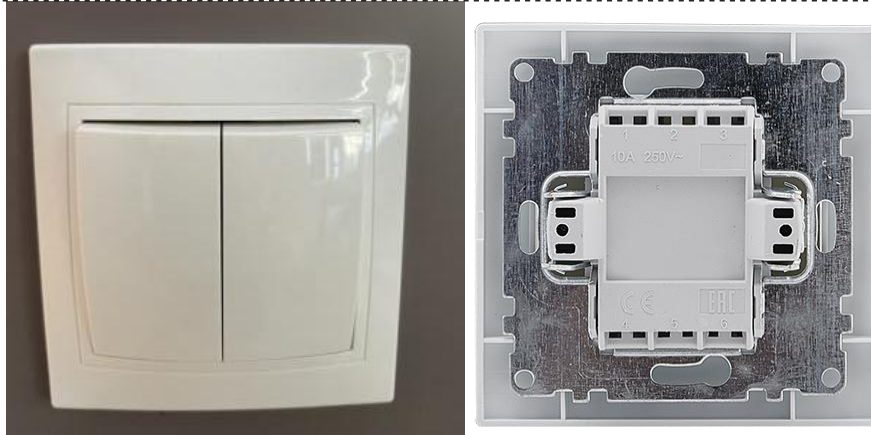
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Details of: A-17 3 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

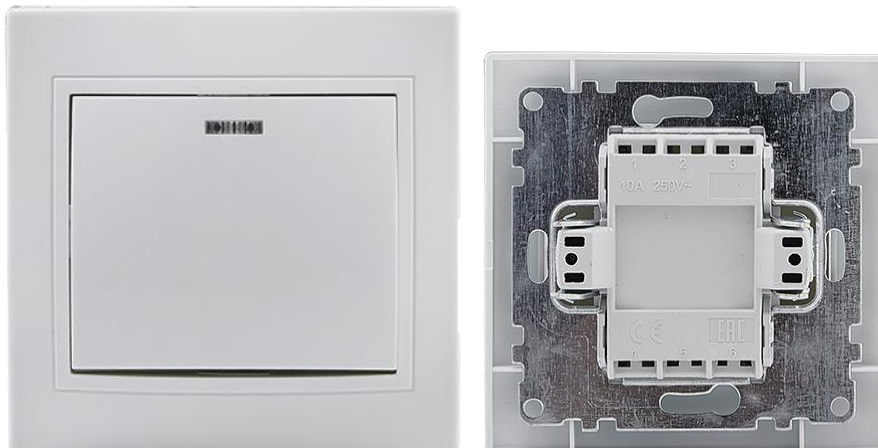
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Details of: A-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-11 1 gang 2 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-05 2 gang 2 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-26 Cross switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-27 Curtain switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-28 Intermedia switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: A-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: LC-01 1 gang 1 way switch

View:

☒ general

☐ front

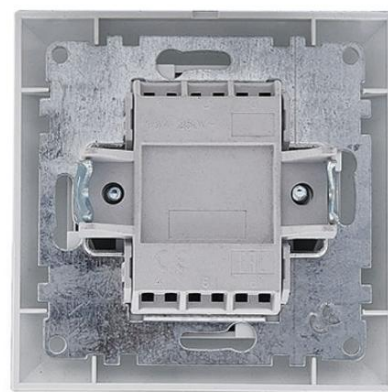
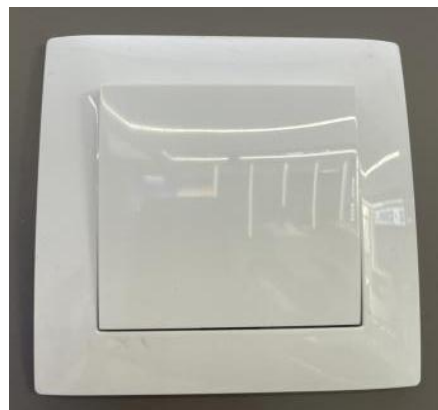
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Details of: LC-02 2 gang 1 way switch

View:

☒ general

☐ front

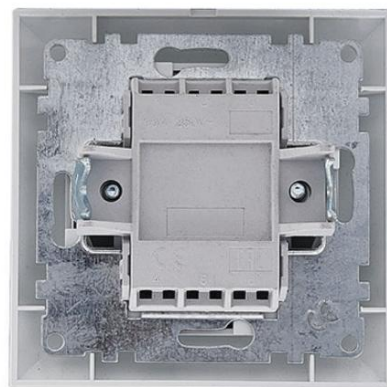
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Details of: LC-17 3 gang 1 way switch

View:

☒ general

☐ front

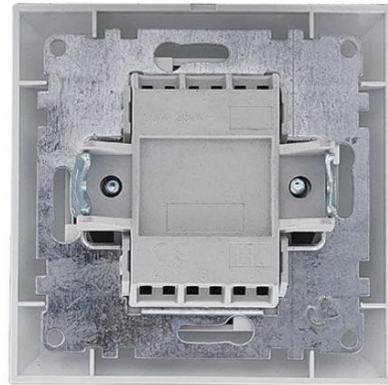
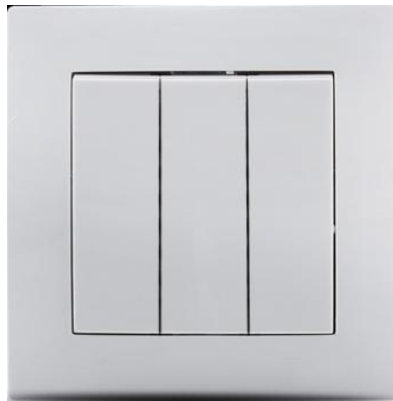
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Details of: LC-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

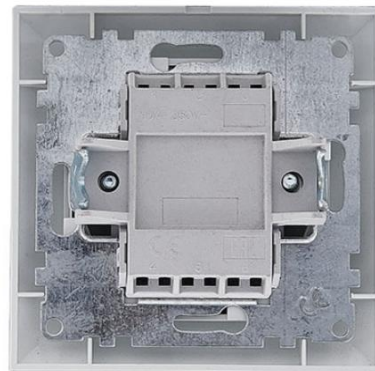
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Details of: LC-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

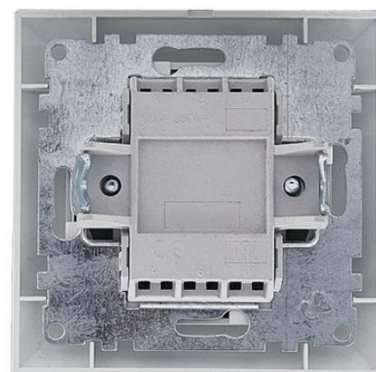
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Details of: LC-11 1 gang 2 way switch

View:

☒ general

☐ front

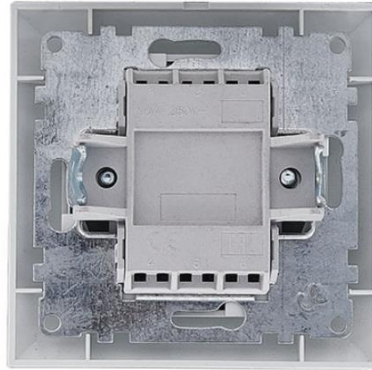
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Details of: LC-05 2 gang 2 way switch

View:

☒ general

☐ front

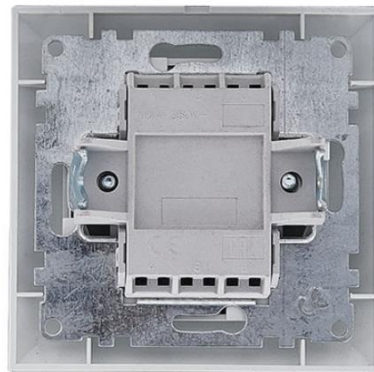
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Details of: LC-06 Doorbell switch

View:

☒ general

☐ front

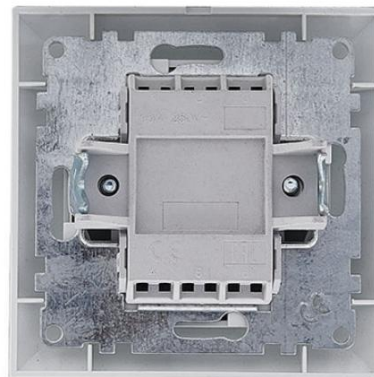
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Details of: LC-26 cross switch

View:

☒ general

☐ front

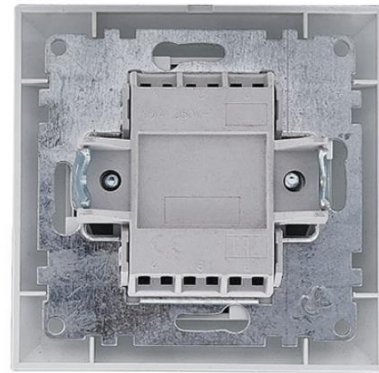
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Details of: LC-27 curtain switch

View:

☒ general

☐ front

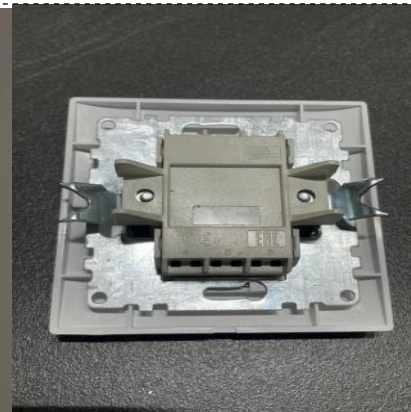
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Details of: LC-36 dimmer switch

View:

☒ general

☐ front

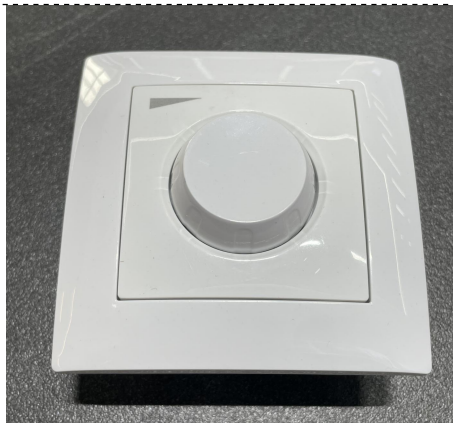
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Details of: BSZ-01 1 gang 1 way switch

View:

☒ general

☐ front

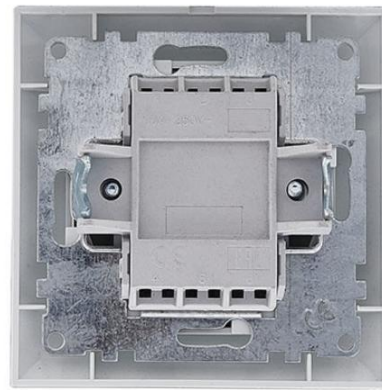
☐ rear

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☐ top

☐ bottom



Details of: BSZ-02 2 gang 1 way switch

View:

☒ general

☐ front

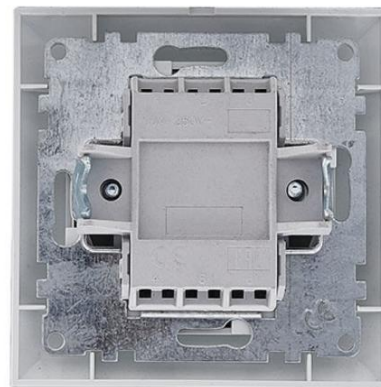
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☐ bottom



Details of: BSZ-17 3 gang 1 way switch

View:

☒ general

☐ front

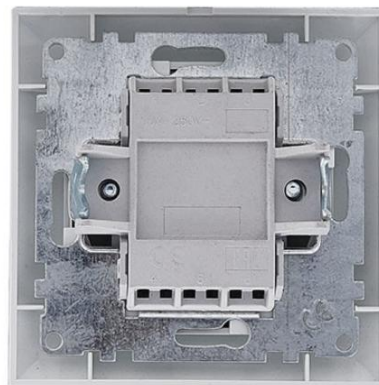
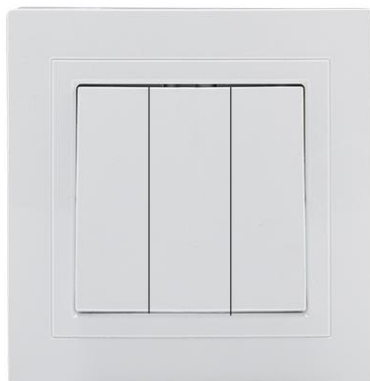
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Details of: BSZ-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

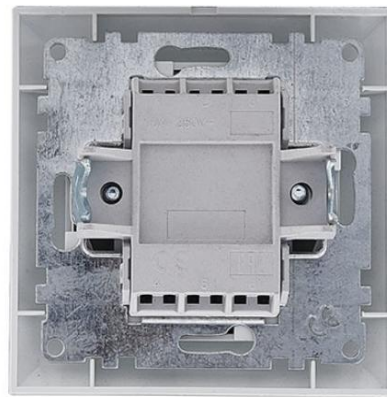
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Details of: BSZ-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

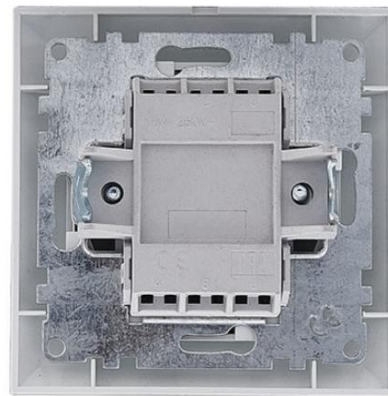
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☐ bottom



Details of: BSZ-11 1 gang 2 way switch

View:

☒ general

☐ front

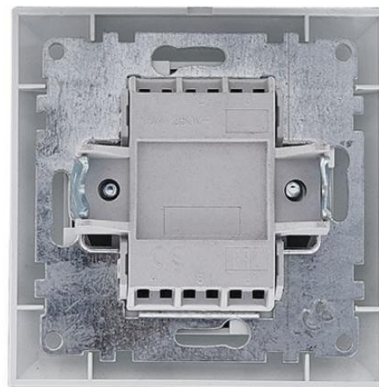
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Details of: BSZ-05 2 gang 2 way switch

View:

☒ general

☐ front

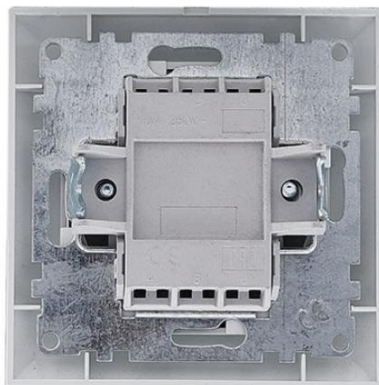
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Details of: BSZ-26 cross switch

View:

☒ general

☐ front

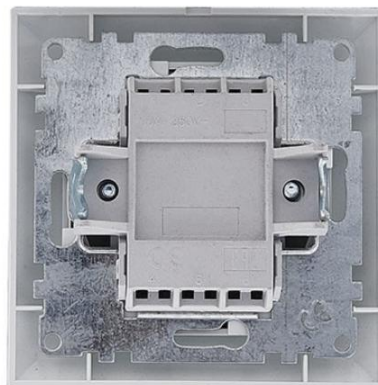
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Details of: BSZ-27 curtain switch

View:

☒ general

☐ front

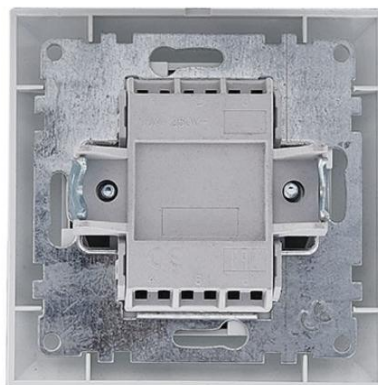
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Details of: EP-01 1 gang 1 way switch

View:

☒ general

☐ front

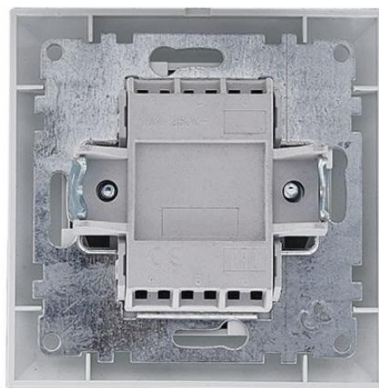
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Details of: EP-02 2 gang 1 way switch

View:

☒ general

☐ front

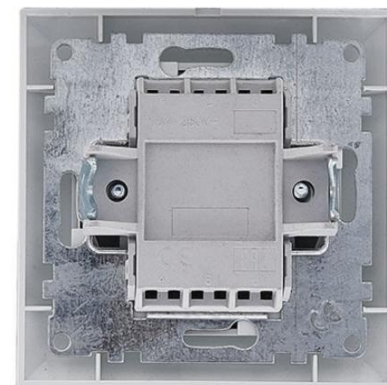
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Details of: EP-17 3 gang 1 way switch

View:

☒ general

☐ front

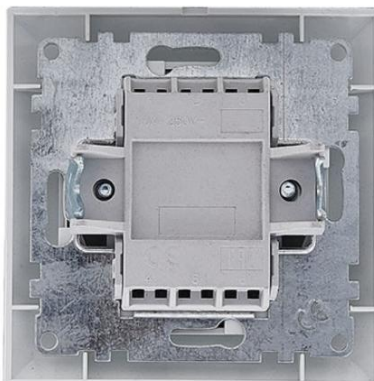
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Details of: EP-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

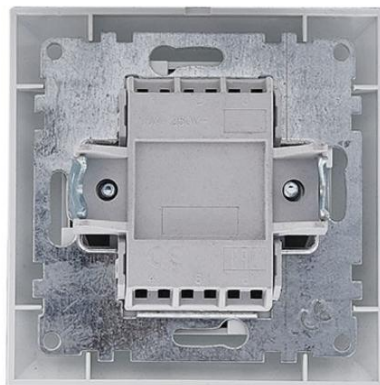
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Details of: EP-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

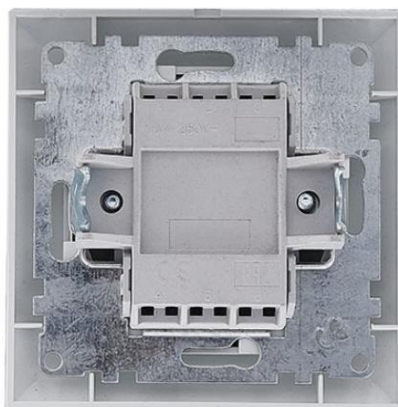
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☐ bottom



Details of: EP-11 1 gang 2 way switch

View:

☒ general

☐ front

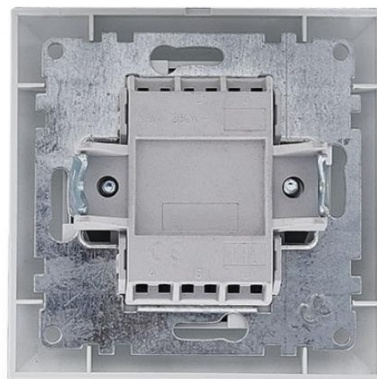
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Details of: EP-05 2 gang 2 way switch

View:

☒ general

☐ front

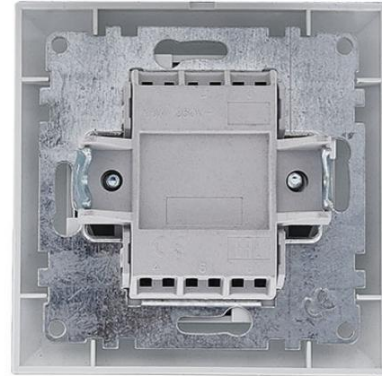
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Details of: EP-26 cross switch

View:

☒ general

☐ front

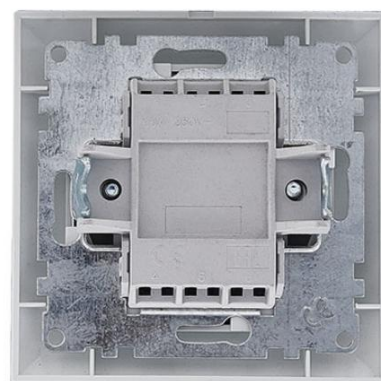
☐ rear

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Details of: EP-06 doorbell switch

View:

☒ general

☐ front

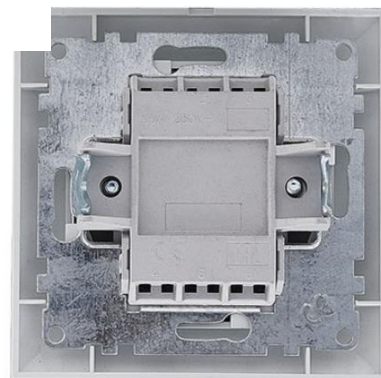
☐ rear

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☐ bottom



Details of: EP-27 curtain switch

View:

☒ general

☐ front

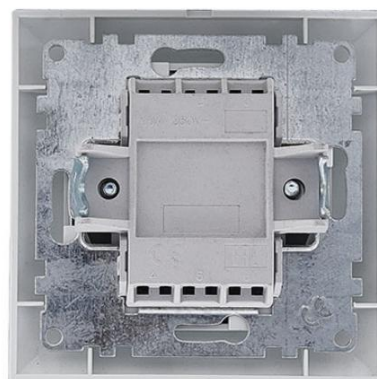
☐ rear

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Details of: EP-28 intermedia switch

View:

☒ general

☐ front

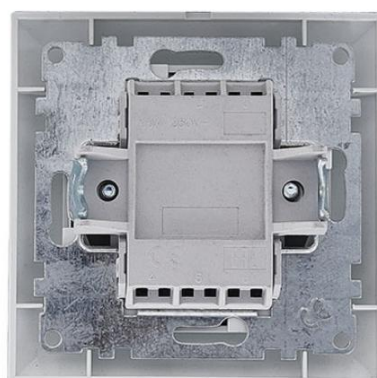
☐ rear

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☐ bottom



Details of: EP-29 intermedia switch with indicator

View:

☒ general

☐ front

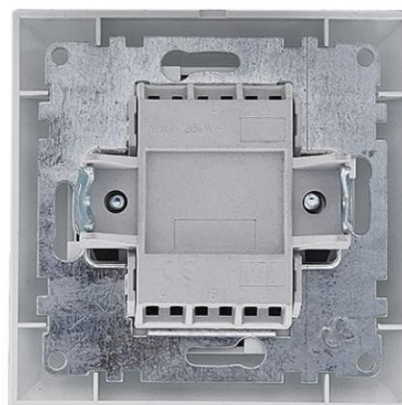
☐ rear

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☐ bottom



Details of: EP-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: BZ-01 1 gang 1 way switch

View:

☒ general

☐ front

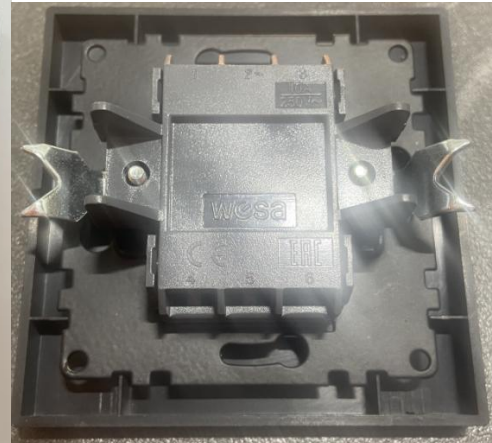
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Details of: BZ-02 2 gang 1 way switch

View:

☒ general

☐ front

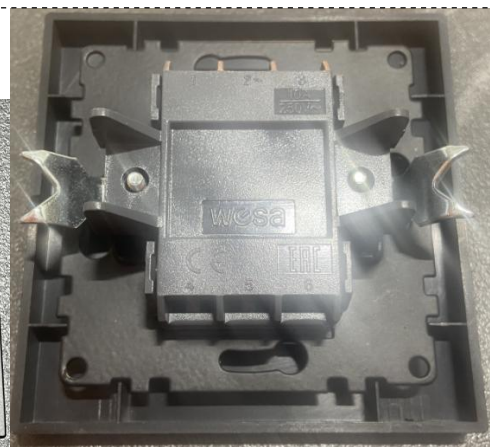
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Details of: BZ-17 3 gang 1 way switch

View:

☒ general

☐ front

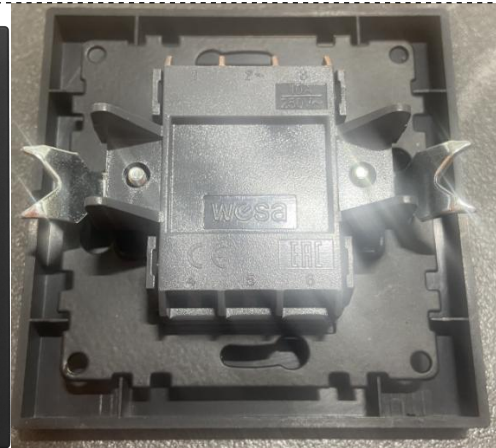
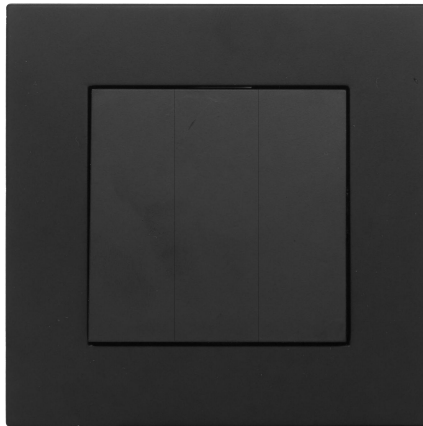
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☐ bottom



Details of: BZ-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: BZ-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

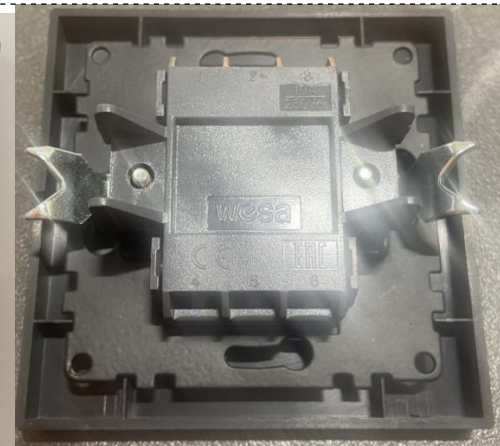
☐ rear

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Details of: BZ-11 1 gang 2 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: BZ-26 cross switch

View:

☒ general

☐ front

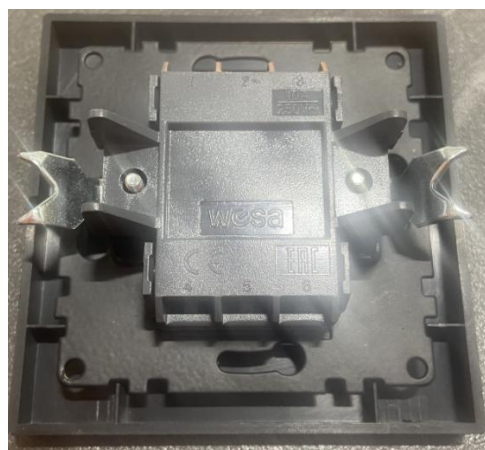
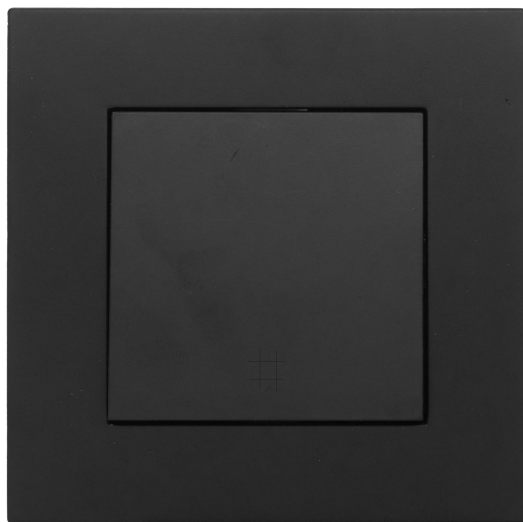
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☐ bottom



Details of: LQ-01 1 gang 1 way switch

View:

☒ general

☐ front

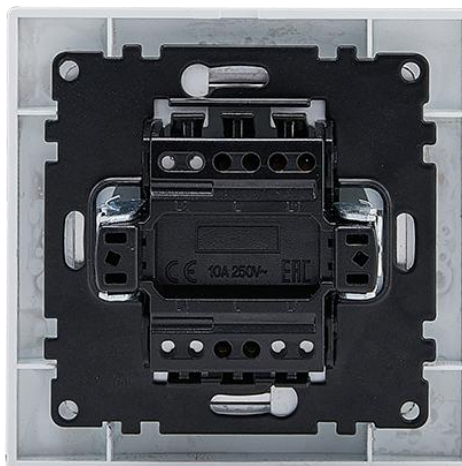
☐ rear

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☐ bottom



Details of: LQ-02 2 gang 1 way switch

View:

☒ general

☐ front

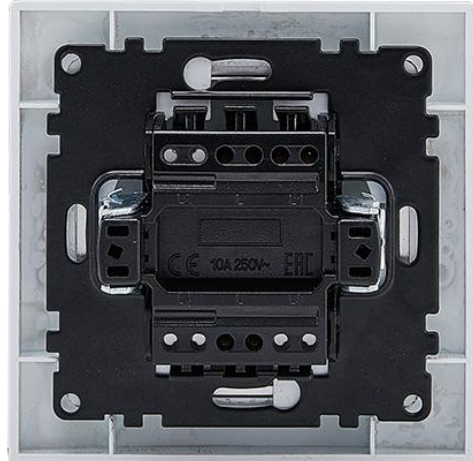
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☐ bottom



Details of: LQ-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

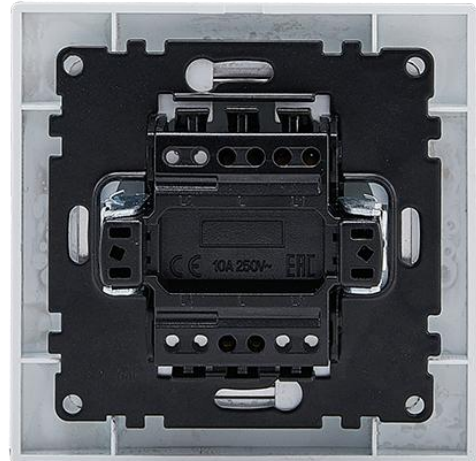
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☐ bottom



Details of: LQ-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

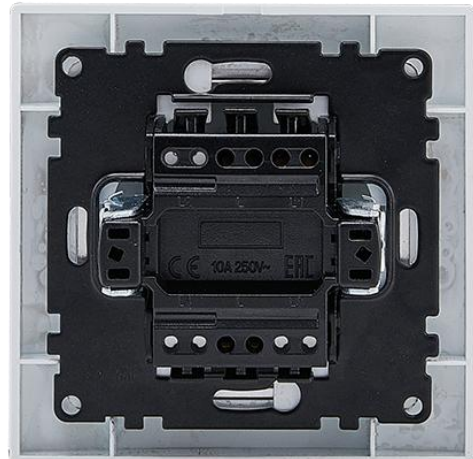
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☐ top

☐ bottom



Details of: LQ-11 1 gang 2 way switch

View:

☒ general

☐ front

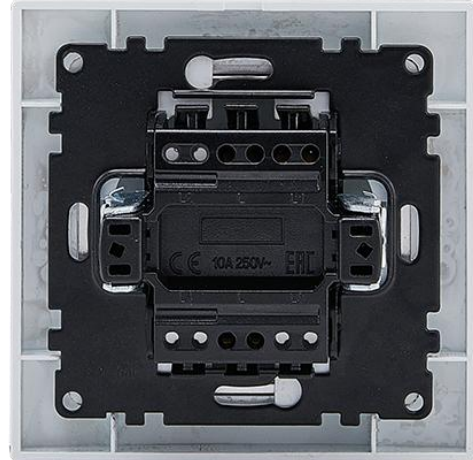
☐ rear

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☐ top

☐ bottom



Details of: LQ-26 cross switch

View:

☒ general

☐ front

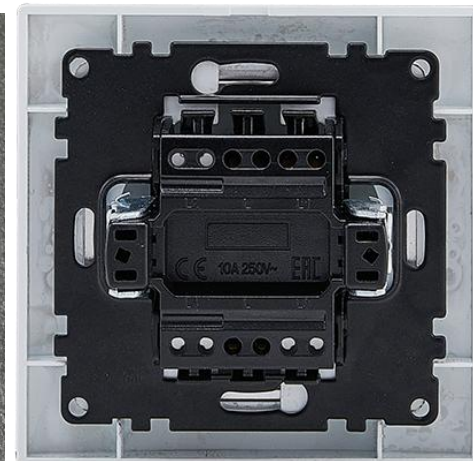
☐ rear

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☐ bottom



Details of: LQ-27 curtain switch

View:

☒ general

☐ front

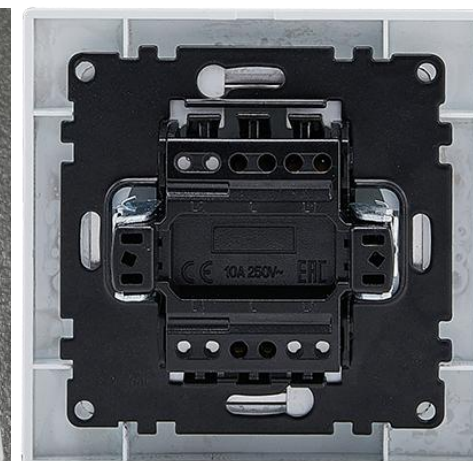
☐ rear

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☐ top

☐ bottom



Details of: LQ-28 intermediate switch

View:

☒ general

☐ front

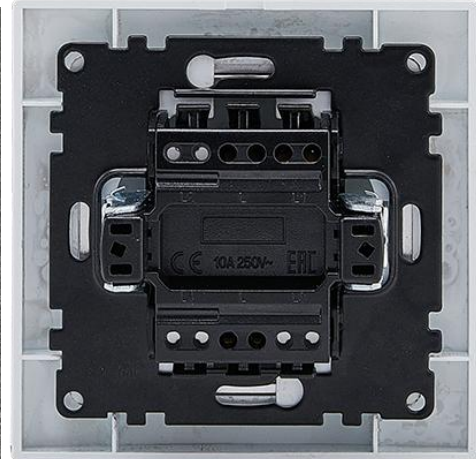
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☐ top

☐ bottom



Details of: LCQ-01 1 gang 1 way switch

View:

☒ general

☐ front

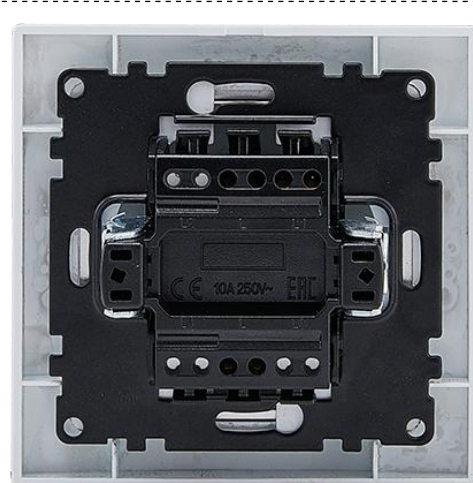
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☐ top

☐ bottom



Details of: LCQ-01 2 gang 1 way switch

View:

☒ general

☐ front

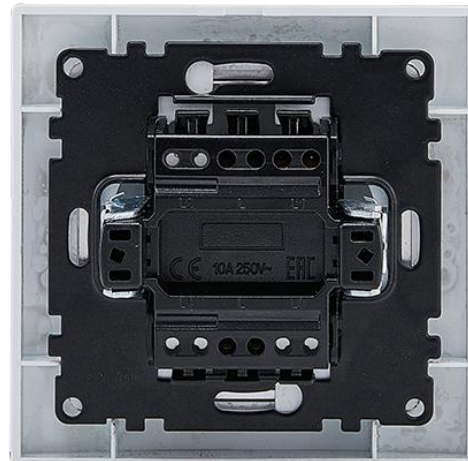
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Details of: LCQ-01 3 gang 1 way switch

View:

☒ general

☐ front

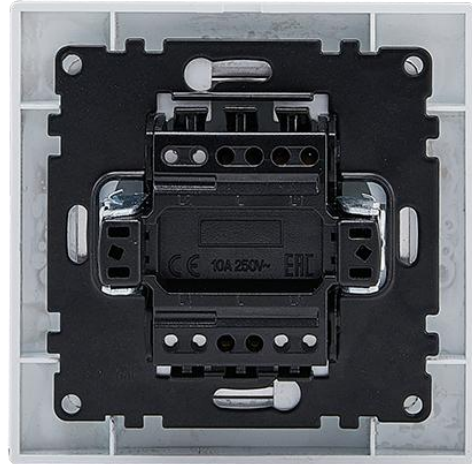
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Details of: LCQ-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

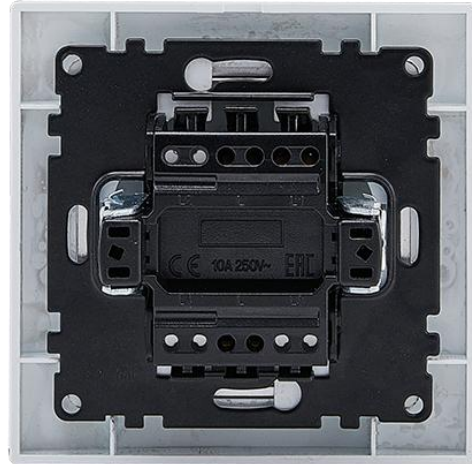
☐ rear

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Details of: LCQ-11 1 gang 2 way switch

View:

☒ general

☐ front

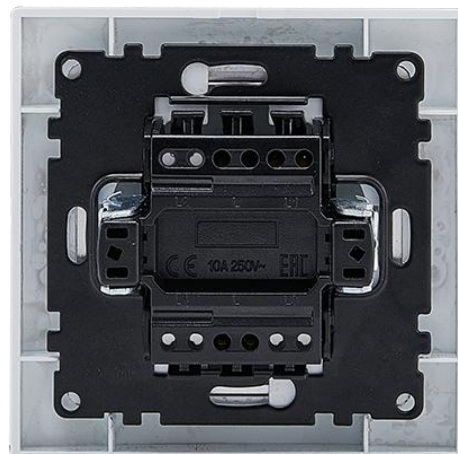
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Details of: LCQ-01 doorbell switch

View:

☒ general

☐ front

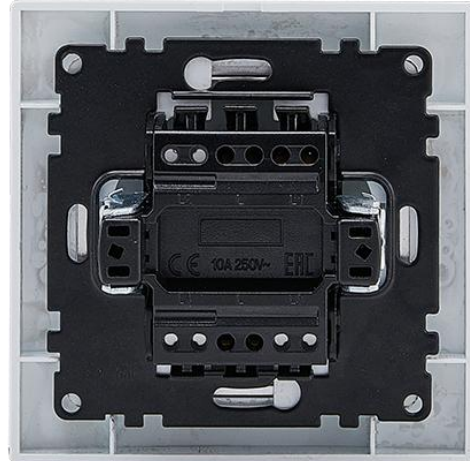
☐ rear

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☐ bottom



Details of: LCQ-01 curtain switch

View:

☒ general

☐ front

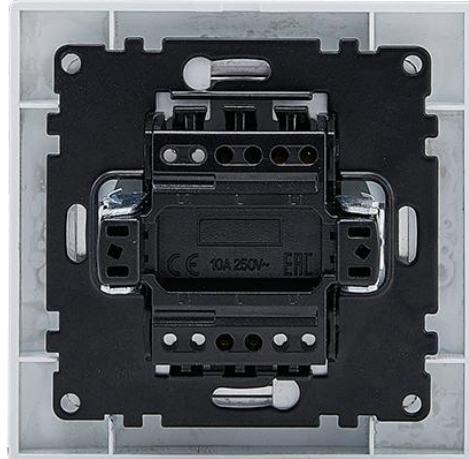
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Details of: FL-01 1 gang 1 way switch

View:

☒ general

☐ front

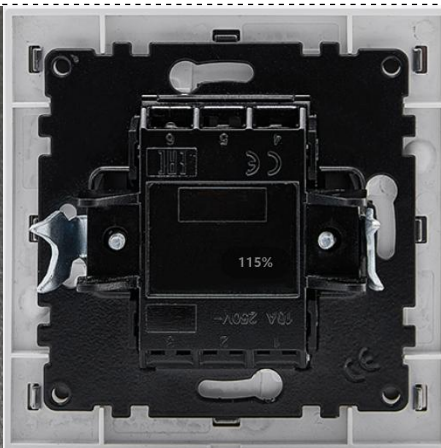
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Details of: FL-02 2 gang 1 way switch

View:

☒ general

☐ front

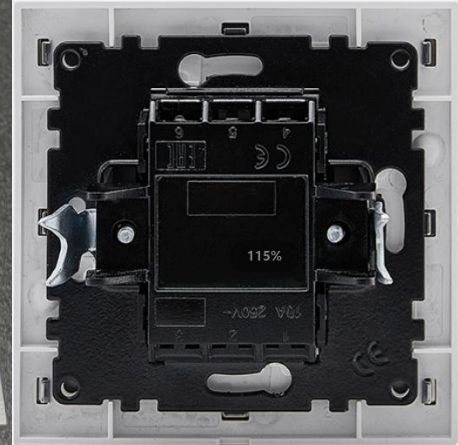
☐ rear

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Details of: FL-17 3 gang 1 way switch

View:

☒ general

☐ front

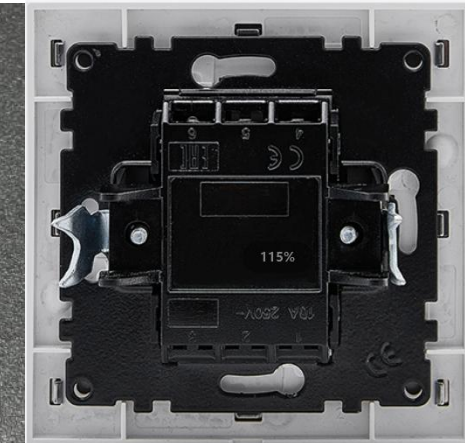
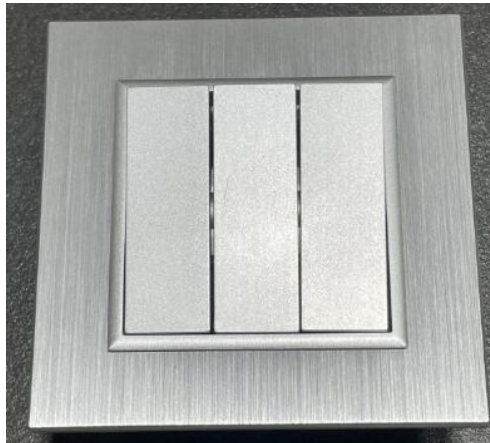
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Details of: FL-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

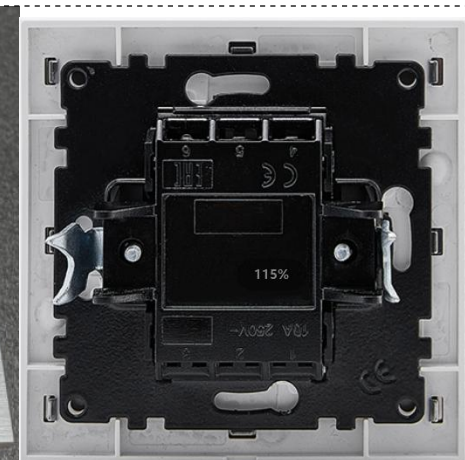
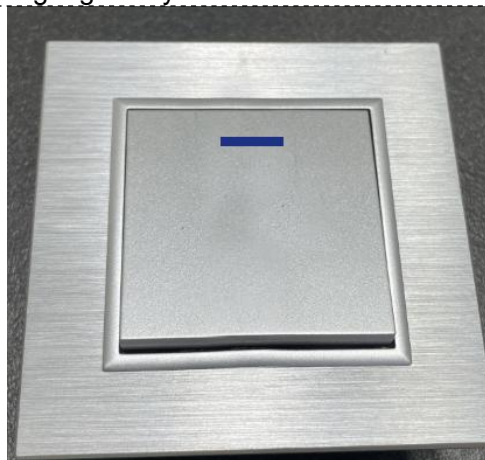
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Details of: FL-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

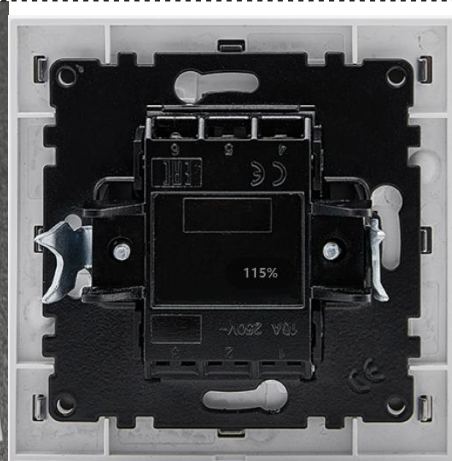
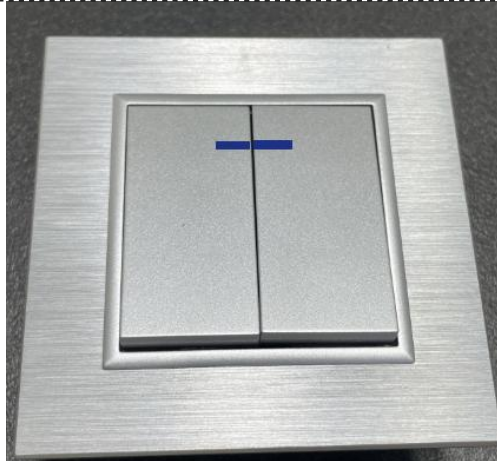
☐ rear

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Details of: FL-26 cross switch

View:

☒ general

☐ front

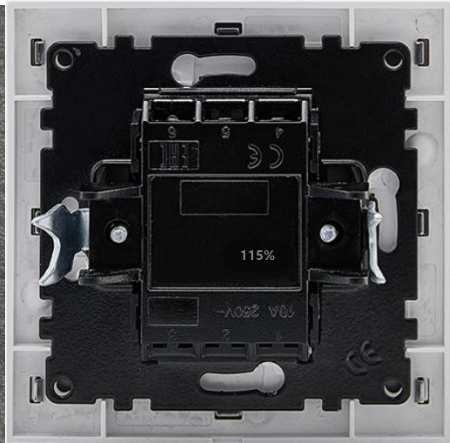
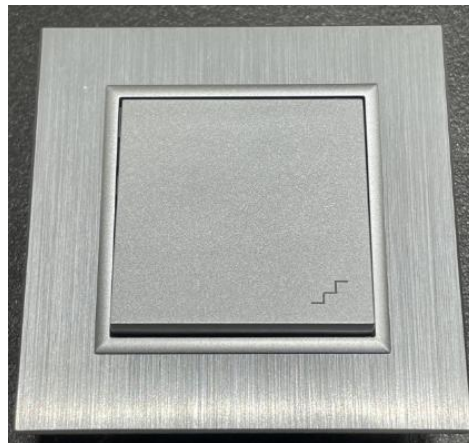
☐ rear

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Details of: FL-27 curtain switch

View:

☒ general

☐ front

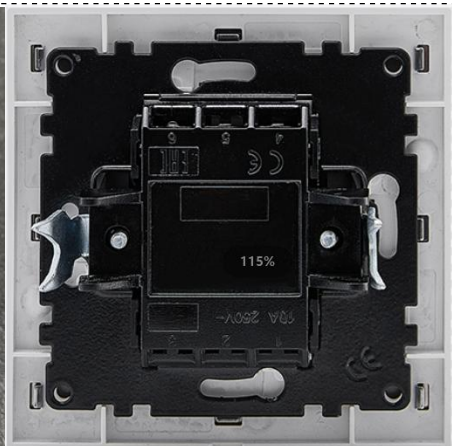
☐ rear

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Details of: FYKB-01 1 gang 1 way switch

View:

☒ general

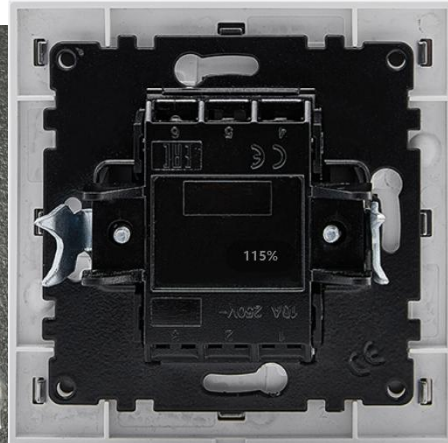
☐ front

☐ rear

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☐ bottom


Details of: FYKB-02 2 gang 1 way switch

View:

☒ general

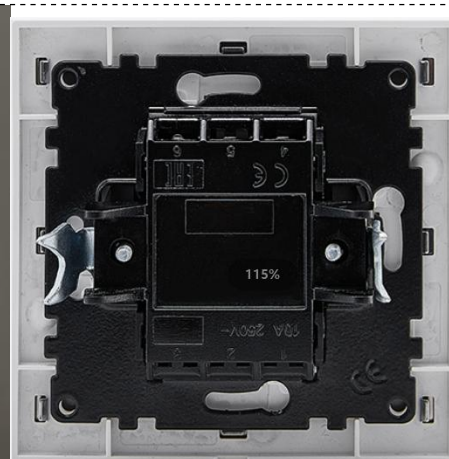
☐ front

☐ rear

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Details of: FYKB-17 3 gang 1 way switch

View:

☒ general

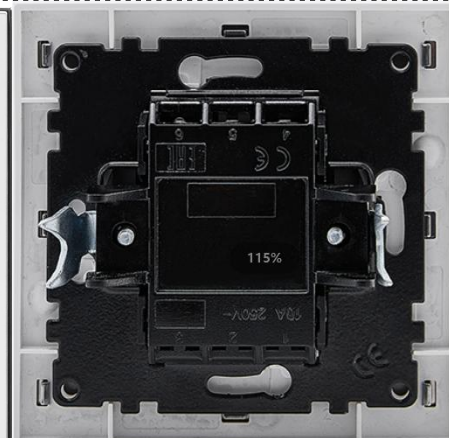
☐ front

☐ rear

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☐ bottom


Details of: FYKB-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

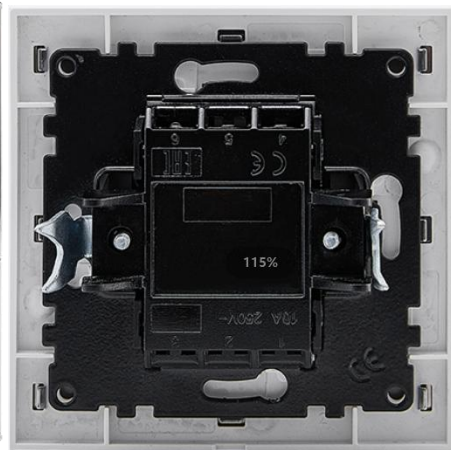
☐ rear

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Details of: FYKB-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

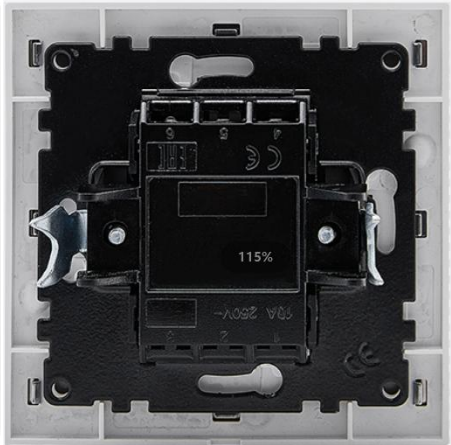
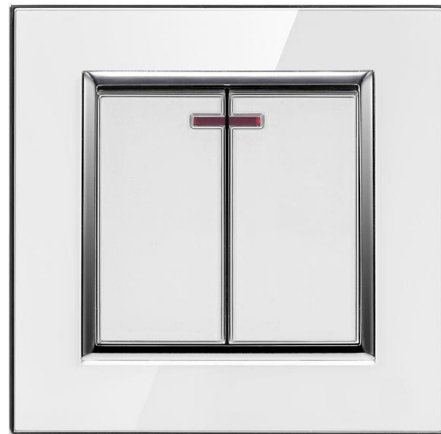
☐ rear

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Details of: FYKB-11 1 gang 2 way switch

View:

☒ general

☐ front

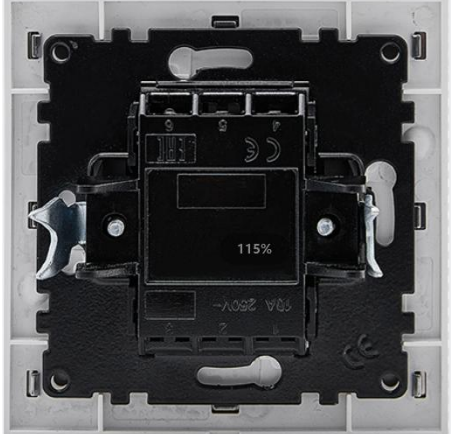
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Details of: FYKB-05 2 gang 2 way switch

View:

☒ general

☐ front

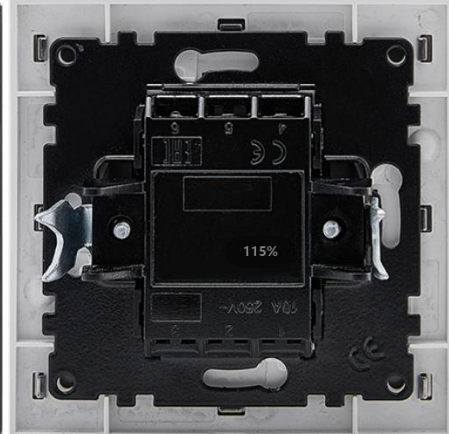
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Details of: FYKB-06 doorbell switch

View:

☒ general

☐ front

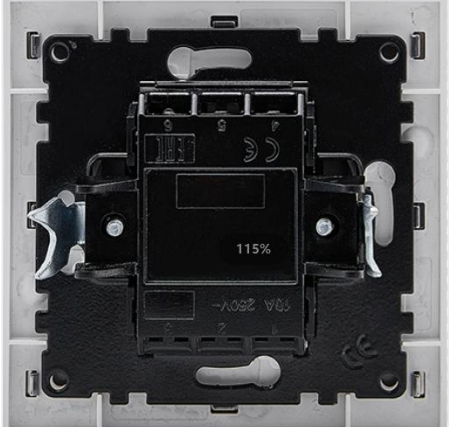
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Details of: FYKB-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: FYKH-01 1 gang 1 way switch

View:

☒ general

☐ front

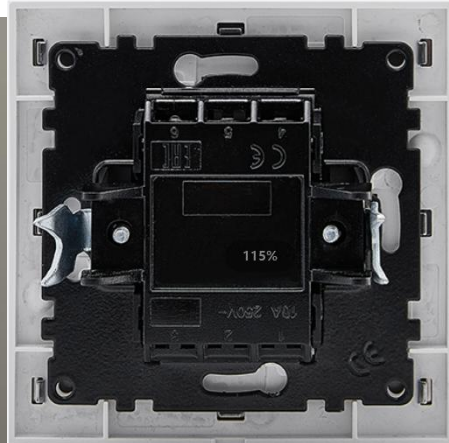
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Details of: FYKH-02 2 gang 1 way switch

View:

☒ general

☐ front

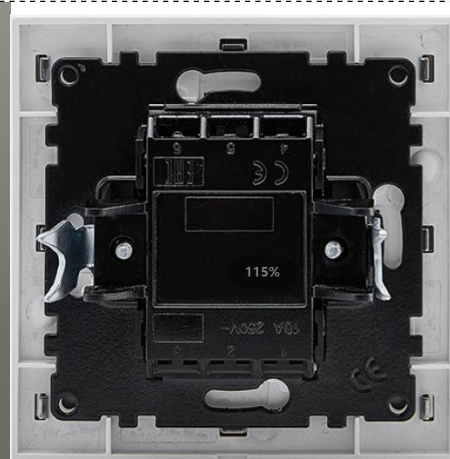
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Details of: FYKH-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

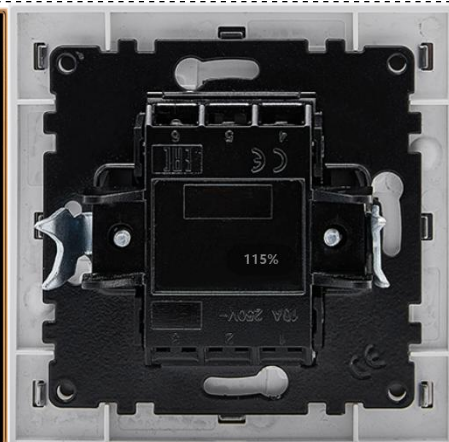
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Details of: FYKH-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

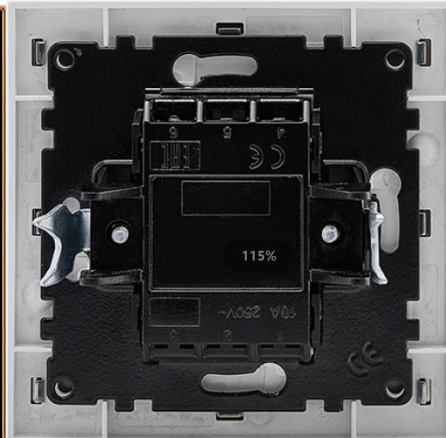
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Details of: FYKH-11 1 gang 2 way switch

View:

☒ general

☐ front

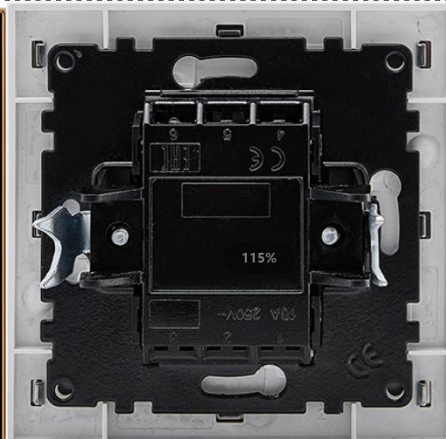
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Details of: FYKH-05 2 gang 2 way switch

View:

☒ general

☐ front

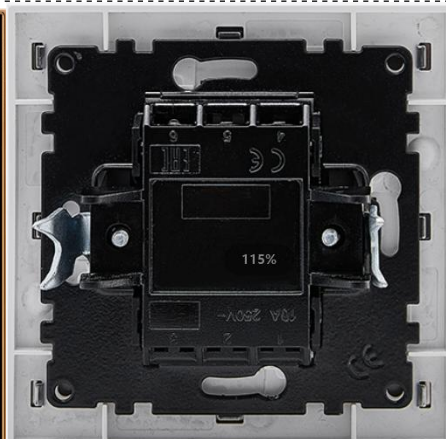
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Details of: FYKH-06 doorbell switch

View:

☒ general

☐ front

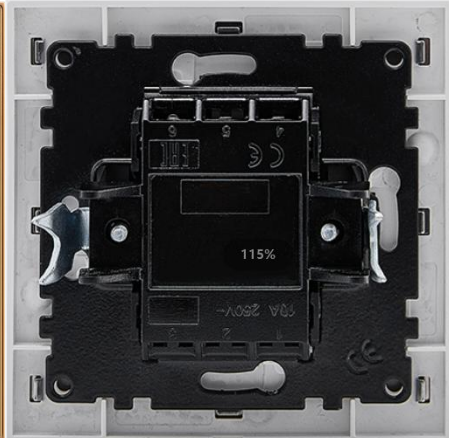
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Details of: FYKH-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: FMB-01 1 gang 1 way switch

View:

☒ general

☐ front

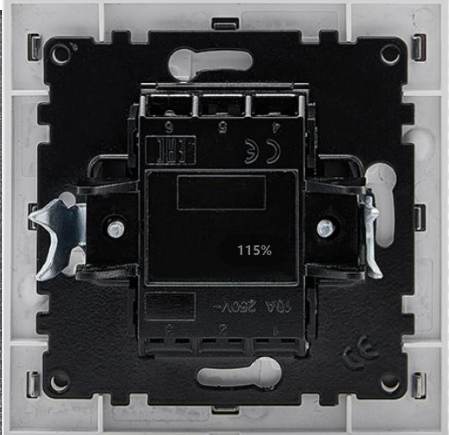
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Details of: FMB-02 2 gang 1 way switch

View:

☒ general

☐ front

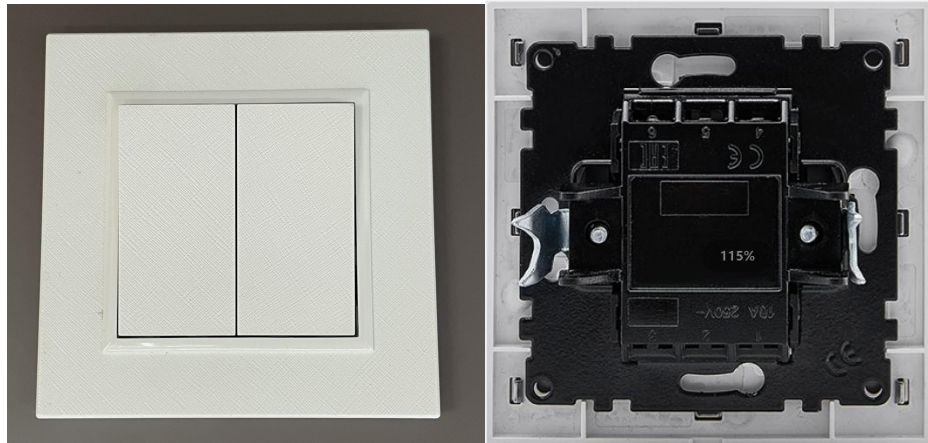
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Details of: FMB-17 3 gang 1 way switch

View:

☒ general

☐ front

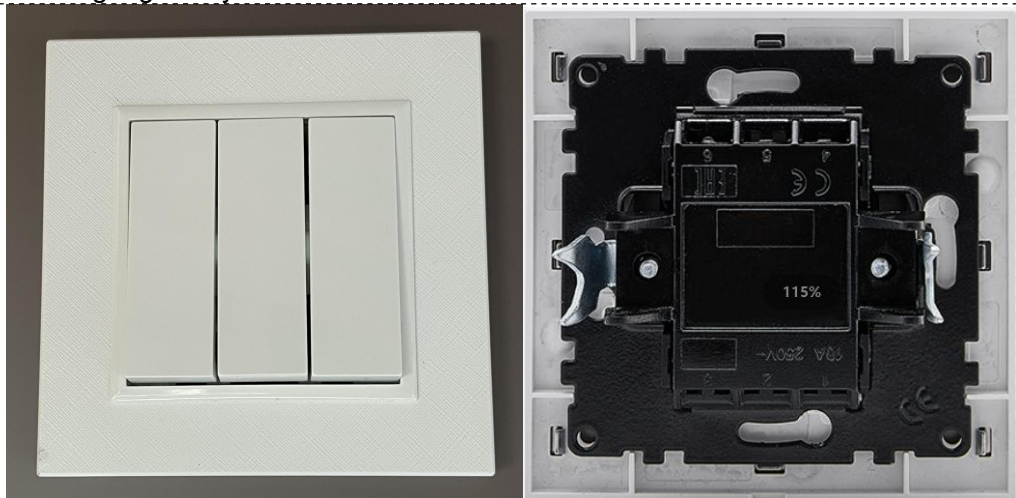
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Details of: FMB-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

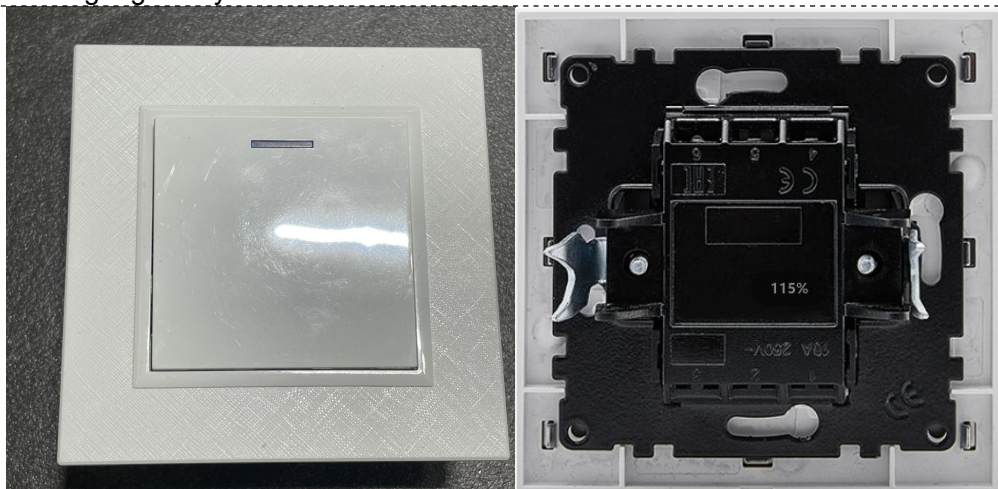
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Details of: FMB-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

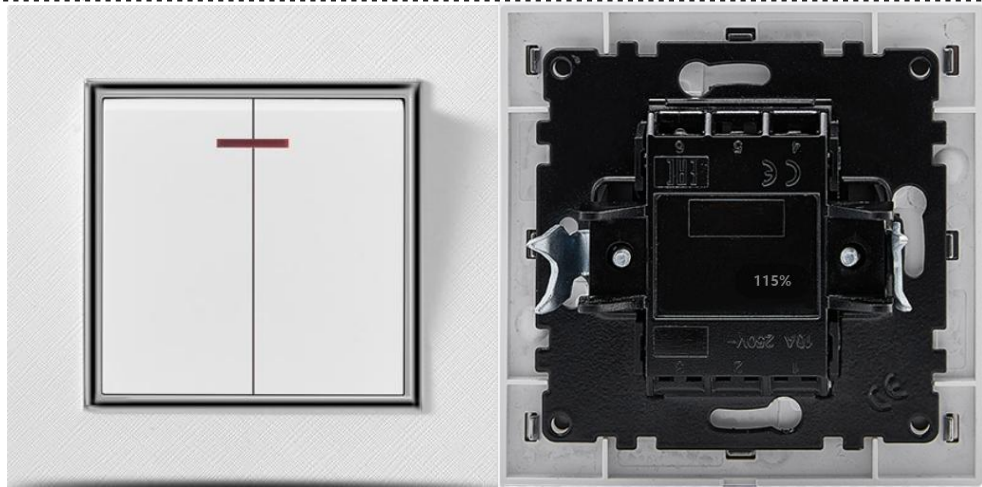
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Details of: FMB-11 1 gang 2 way switch

View:

☒ general

☐ front

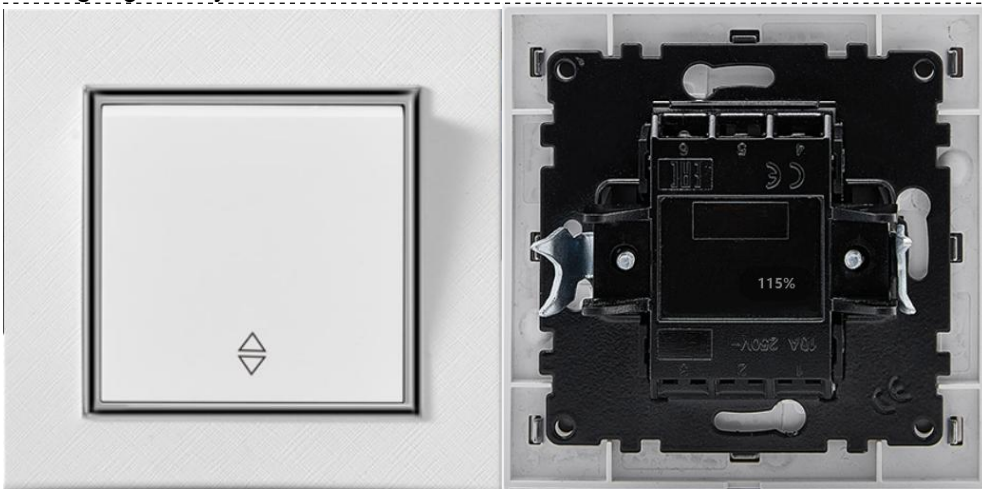
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Details of: FMB-05 2 gang 2 way switch

View:

☒ general

☐ front

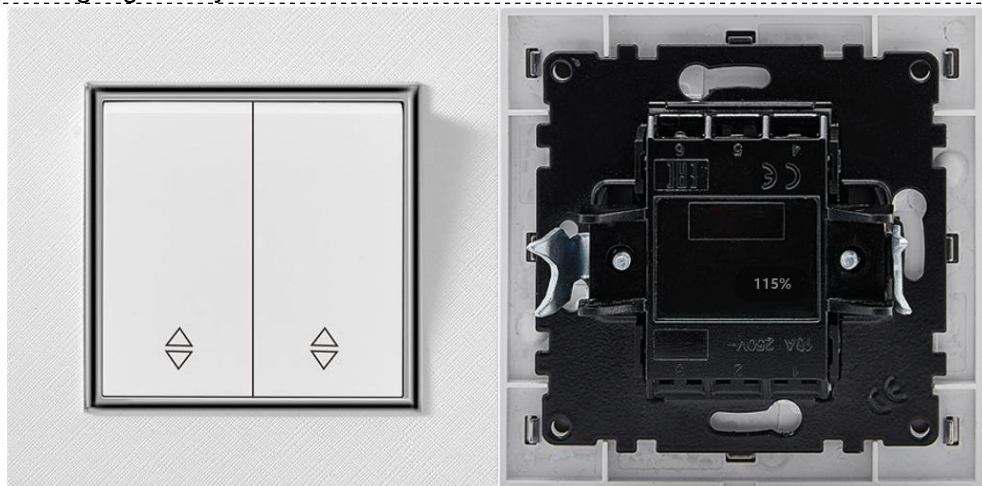
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Details of: FMB-06 doorbell switch

View:

☒ general

☐ front

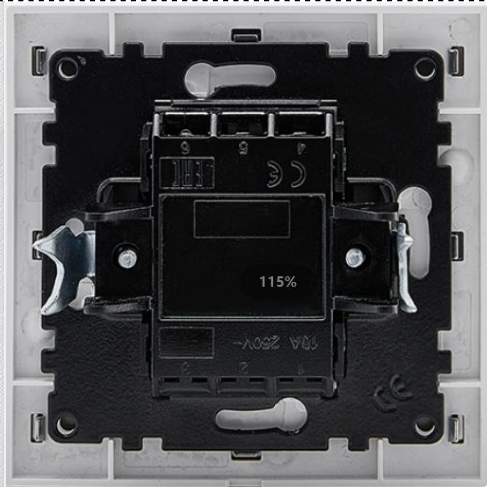
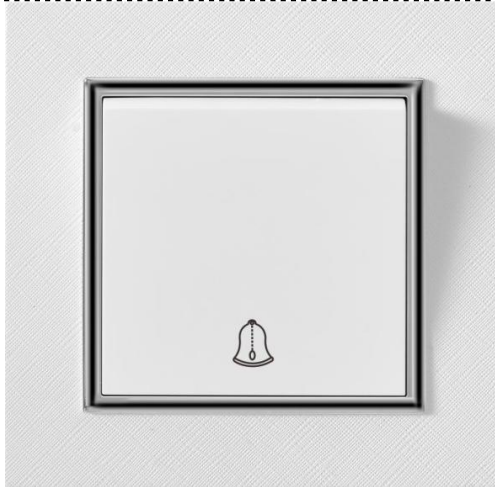
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Details of: FMB-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: FM-01 1 gang 1 way switch

View:

☒ general

☐ front

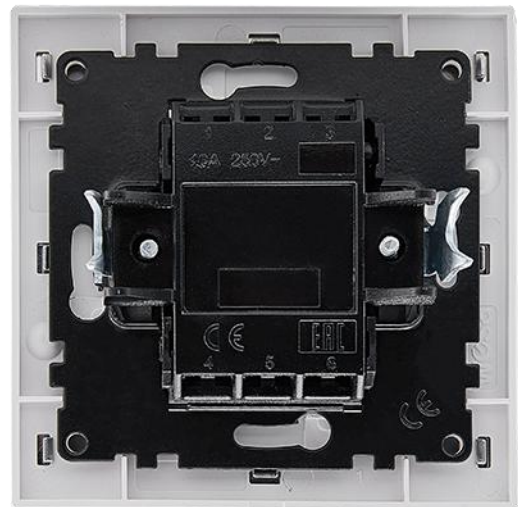
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Details of: FM-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: FM-17 3 gang 1 way switch

View:

☒ general

☐ front

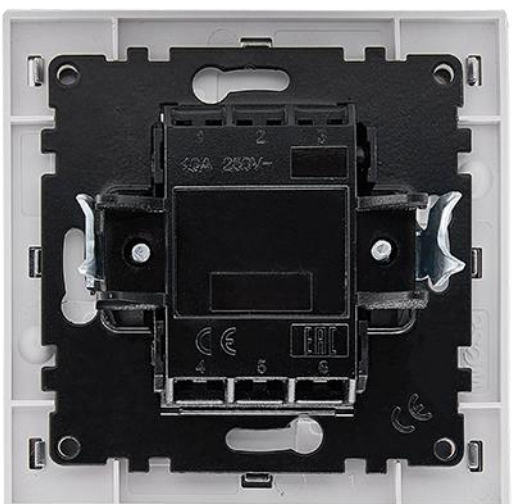
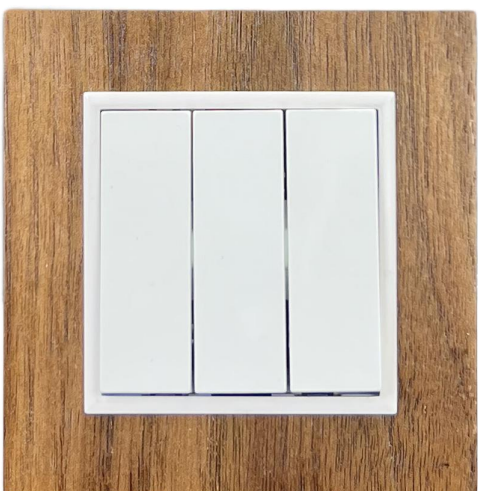
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Details of: FM-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

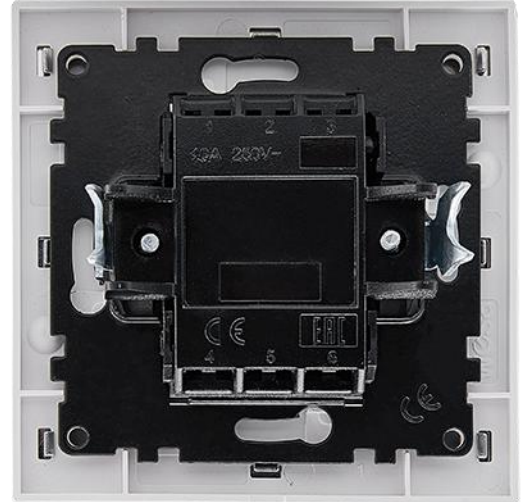
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Details of: FM-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

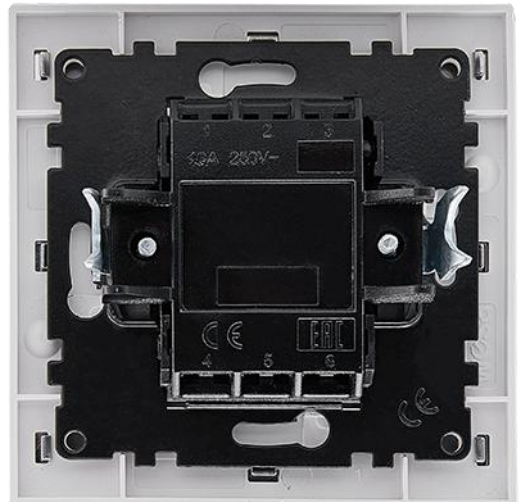
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Details of: FM-11 1 gang 2 way switch

View:

☒ general

☐ front

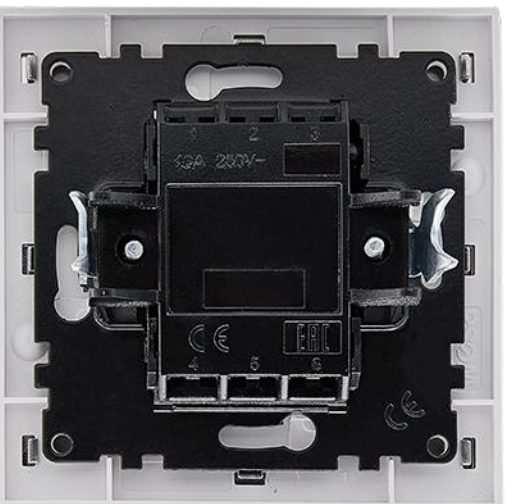
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Details of: FM-05 2 gang 2 way switch

View:

☒ general

☐ front

☐ rear

☐ right

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☐ top

☐ bottom



Details of: FM-26 cross switch

View:

☒ general

☐ front

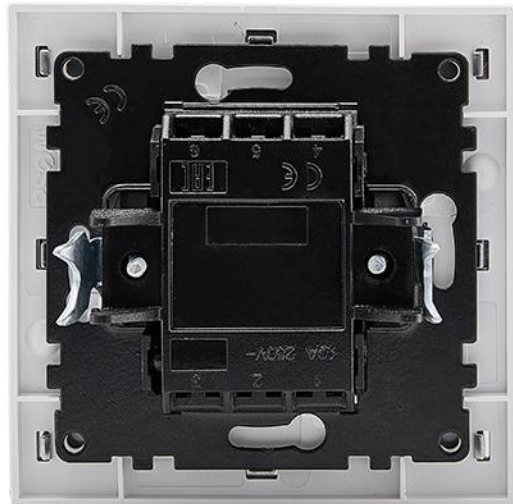
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Details of: FM-06 doorbell switch

View:

☒ general

☐ front

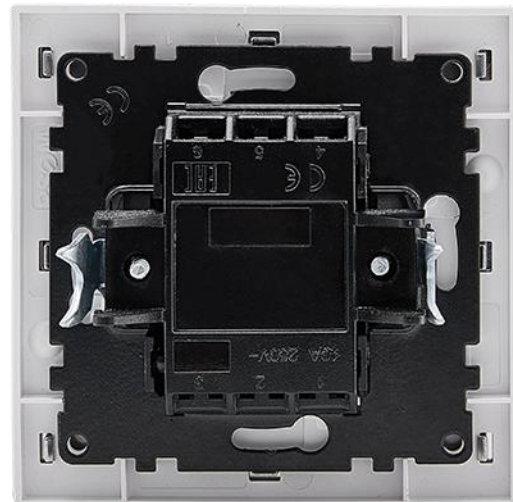
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Details of: FM-28 intermediate switch

View:

☒ general

☐ front

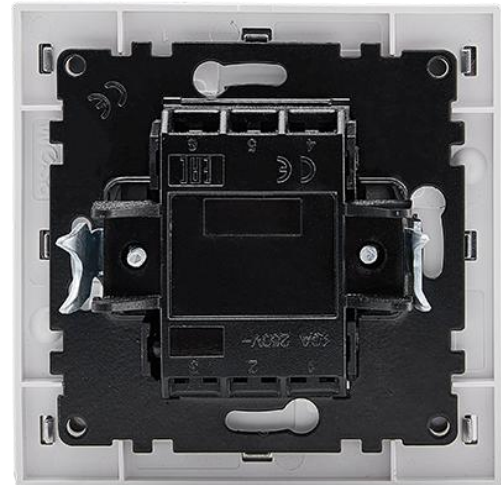
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Details of: FM-27 curtain switch

View:

☒ general

☐ front

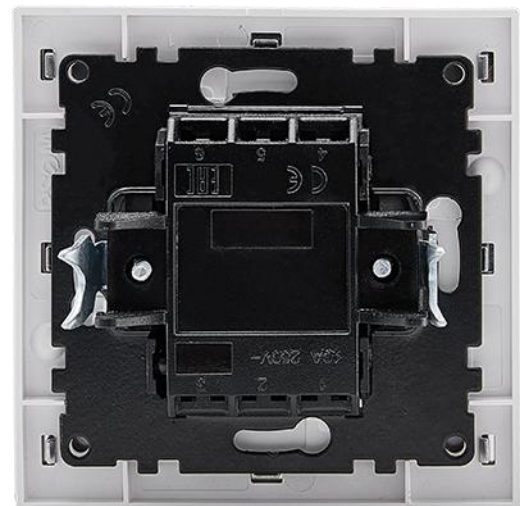
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Details of: FM-36 dimmer switch

View:

☒ general

☐ front

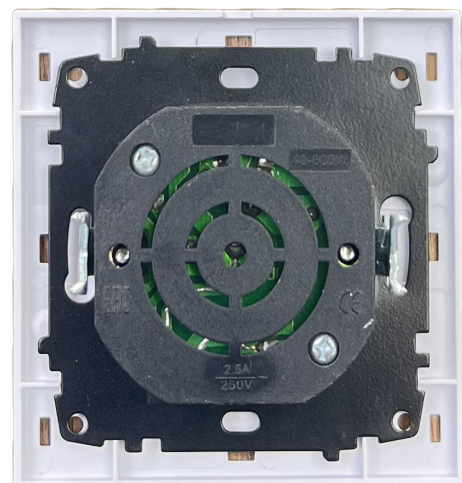
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Details of: FB-01 1 gang 1 way switch

View:

☒ general

☐ front

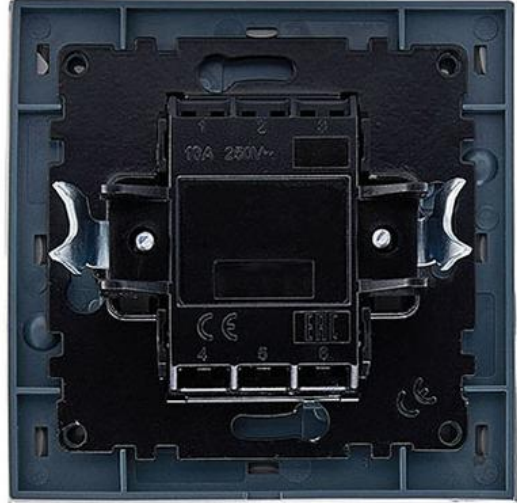
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Details of: FB-02 2 gang 1 way switch

View:

☒ general

☐ front

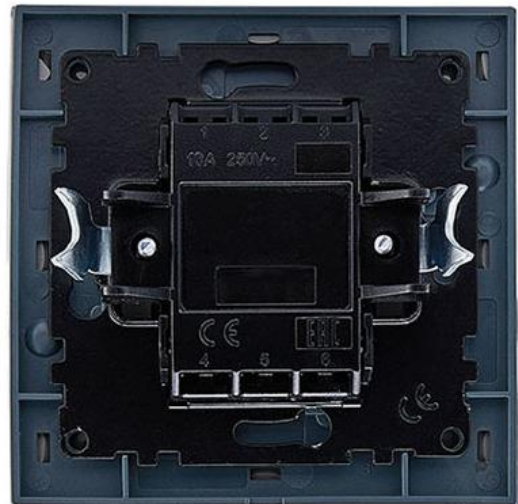
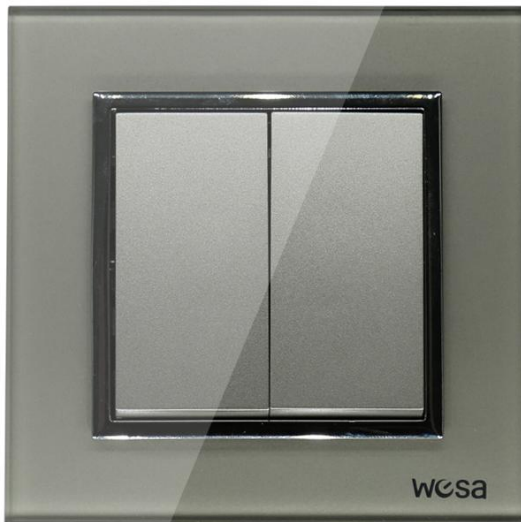
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Details of: FB-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

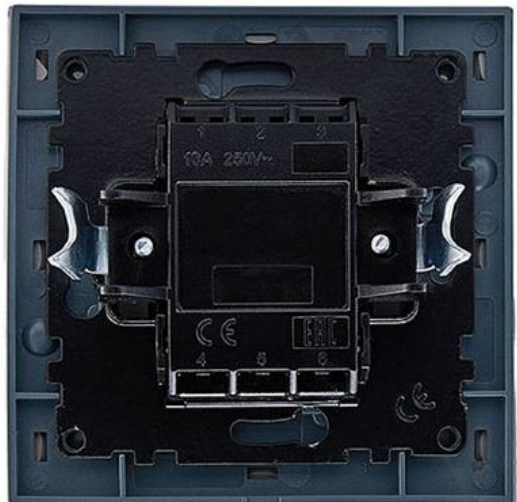
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Details of: FB-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

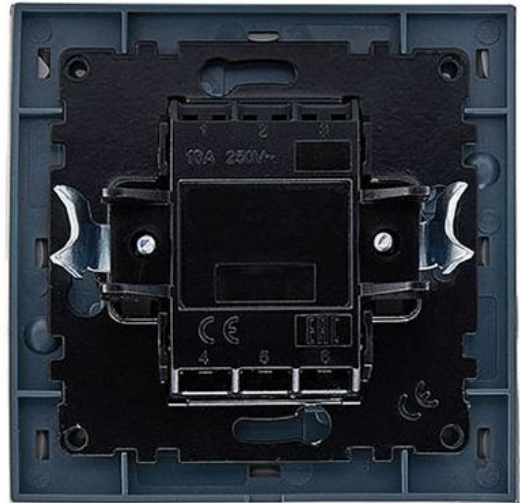
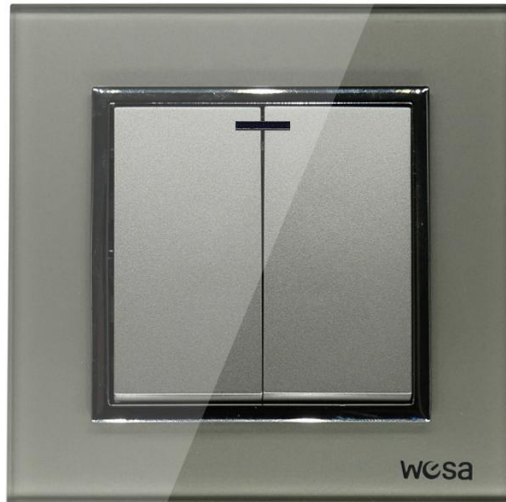
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Details of: FB-28 intermediate switch

View:

☒ general

☐ front

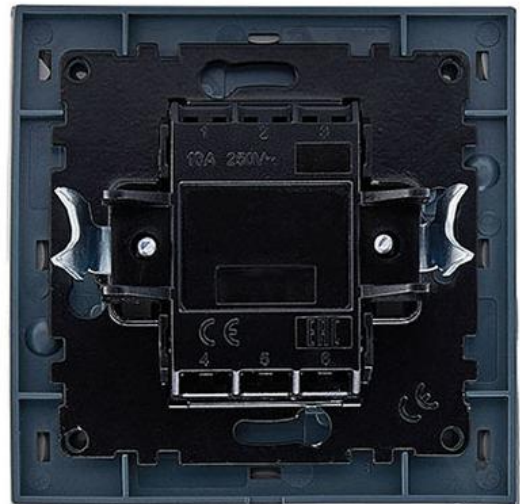
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Details of: SZ-01 1 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: SZ-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: SZ-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

☐ right

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Details of: SZ-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

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Details of: MZ-01 1 gang 1 way switch

View:

☒ general

☐ front

☐ rear

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Details of: MZ-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

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☐ bottom



Details of: MZ-01 1 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

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☐ bottom



Details of: MZ-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

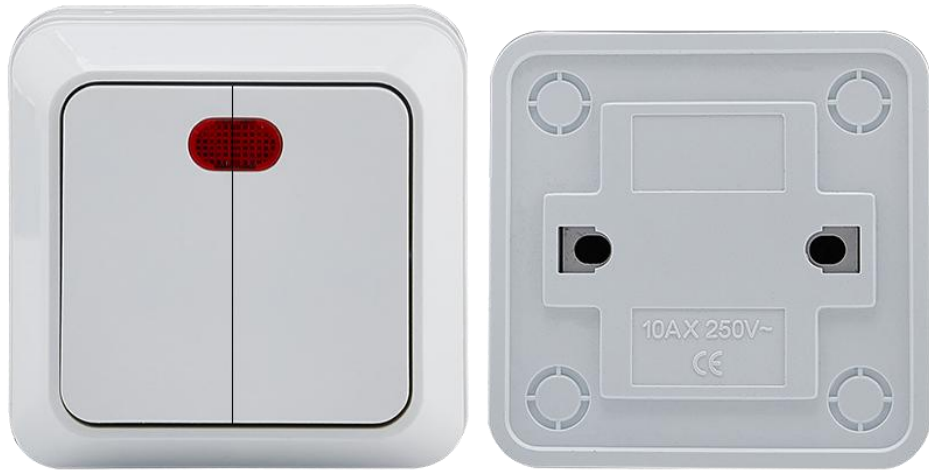
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Details of: MA-01 1 gang 1 way switch

View:

☒ general

☐ front

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☐ bottom



Details of: MA-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

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Details of: MA-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

☐ right

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Details of: MA-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

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Details of: MA-36 dimmer switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: VL-01 1 gang 1 way switch

View:

☒ general

☐ front

☐ rear

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☐ top

☐ bottom



Details of: VL-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

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☐ bottom



Details of: ELE-01 1 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: ELE-02 2 gang 1 way switch

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: ELE-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

☐ rear

☐ right

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Details of: ELE-04 2 gang 1 way switch with indicator

View:

☒ general

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Details of: VS-01 1 gang 1 way switch

View:

☒ general

☐ front

☐ rear

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Details of: VS-02 2 gang 1 way switch

View:

☒ general

☐ front

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Details of: VS-03 1 gang 1 way switch with indicator

View:

☒ general

☐ front

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Details of: VS-04 2 gang 1 way switch with indicator

View:

☒ general

☐ front

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