

Contact elements for 22 or 30mm diameter operators



Contact elements (*)

Code	Model	Description	
ER520810	C01B	1 NC	
ER520800	C10B	1 NO	



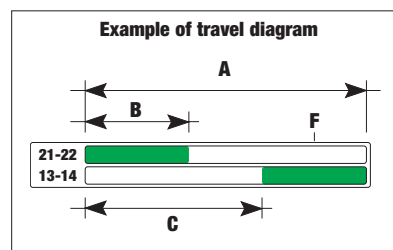
Code	Model	Description	
ER520840	C02	2 NC	
ER520830	C20	2 NO	
ER520820	C11	1 NC + 1 NO	

Zb Contact element in exchange with 4 terminals (the two mobile contacts are electrically separated)



Forced NC contact opening symbol (IEC 947-5-1, section 3)
For switches used in command circuits with safety functions, the safe operation of the NC contact opening is required (see IEC 204, EN 60204)

(*) Slow action contact element



A = maximum driver travel
B = drive travel up to the opening of the 21-22 NC contact
C = drive travel up to the closure of the 13-14 NO contact
F = total travel necessary for complete forced opening

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- Technical information page **C8**

Lamp holders for 22 or 30mm diameter operators



Lamp holder (*)

Code	Model	Description	Voltage ~	Lamp
ER520050	BL9S-B (*)	Direct power supply element	250 V max	220 to 250 V / 2,6 W
ER520100	BR24-B (*)	Element with resistor	30 V	30 V / 3 W
ER520150	BR110-B	Element with resistor	110 to 130 V	110 to 130 V / 2,6 W
ER520200	BR220-B	Element with resistor and diode	250 V	110 to 130 V / 2,6 W

(*)- Bulb not supplied. Use bulbs with BA9S connection.

Complete lamp holder

Normal version

Code	Model	Description	Voltage ~	Lamp
ER520410	BT110	Element with transformer	110 to 130 V / 24 V	24 V / 1,5 W
ER520420	BT220	Element with transformer	220 to 240 V / 24 V	24 V / 1,5 W
ER520430	BT380	Element with transformer	380 to 440 V / 24 V	24 V / 1,5 W
ER520250	BR110	Element with resistor	110 to 130 V	48-60 V / 2 W
ER520260	BR220	Element with resistor	220 to 240 V	110 to 130 V / 2,6 W
ER520600	BLL24	Element with flasher	24 V	24 V / 3 W
ER520610	BLL110	Element with flasher	110 to 130 V	110 to 130 V / 2,6 W

Complete lamp holder

Short version

Code	Model	Description	Voltage ~	Lamp
ER520510	BTC110	Element with transformer	110 to 130 V / 24 V	24 V / 1,5 W
ER520520	BTC220	Element with transformer	220 to 240 V / 24 V	24 V / 1,5 W
ER520530	BTC380	Element with transformer	380 to 440 V / 24 V	24 V / 1,5 W
ER520300	BRC110	Element with resistor	110 to 130 V	48 to 60 V / 2 W
ER520310	BRC220	Element with resistor	220 to 240 V	110 to 130 V / 2,6 W
ER520650	BLLC24	Element with flasher	24 V	24 V / 3 W
ER520660	BLLC110	Element with flasher	110 to 130 V	110 / 130 V / 2,6 W

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Accessories for 22mm diameter operators

Plate holders for round operators



Code	Model
ER522120	PTR

Standard series adhesive plates



Code	Model	Plate description
ER522760	EN 01A	ON
ER522770	EN 02A	OFF
ER522720	EN 03A	FORWARD
ER522730	EN 04A	REVERSE
ER522400	EN 05	0 I
ER522410	EN 06	I II
ER522430	EN 07	I 0 II
ER522390	EN 08	0 I
ER522530	EN 09A	CLOSE
ER522540	EN 10A	OPEN
ER522550	EN 11A	EMERGENCY
ER522310	EN 12	MAN. - AUT.
ER522330	EN 13	AUT. 0 MAN.
ER522620	EN 17	STOP
ER522630	EN 18	START
ER522640	EN 19	RESET
ER522650	EN 20	AUT. 0 HAND

C

Accessories for 22mm diameter operators



Anti-dust cap for contact elements

IP50

Code	Model
ER522140	CF



Reset rod for operators

Code	Model
ER522110	AR



Fastening keys for operators

Code	Model	Description
ER522070	C22	For operators with metal ring-nut connection
ER522150	C22A	For operators with plastic ring-nut connection



80 mm diameter adhesive yellow disc

Code	Model	Description
ER522050	DG22	Neutral
ER522220	DGS22	Emergency stop



Closure cap for 22.5mm diameter holes

Code	Model
ER522090	T22

Accessories for 22mm diameter operators



Anti-dust cap for protected flush pushbuttons

IP66

Codice	Modello
ER522020	P22



Anti-dust cap for extended flush pushbuttons

IP66

Code	Model
ER522010	P22A



Anti-dust cap for double protected flush pushbuttons

IP66

Code	Model
ER522000	P22-2



Anti-dust cap for double protected flush/extended pushbuttons IP66

Code	Model
ER522170	P22-4



Anti-dust cap for triple pushbuttons with central stop

IP66

Code	Model
ER522160	P22-3

Accessories for 22mm diameter operator - Dimension (mm)

Series and model	Dimensions	Series and model	Dimensions
PTR PTQ Plate holders		DG22 DGS22 Adhesive yellow disc	
EN Series adhesive labels		T22 Closure caps for 22.5 hole	
P22-2 P22-3 P22-4 Anti-dust caps for double pushbutton		R01 R10 Contact elements for control station	
P22 Dust caps for flush pushbuttons		BL9R GRR Lamp holder for rear mounting	
P22-A Dust caps for extended pushbuttons		C01B C10B Contact elements	
CF Dust caps for for contacts elements		C02 C20 C11 Contact elements	
AR Reset button rod		Adhesive legend labels	

Accessories for 22mm diameter operators



Adhesive legend labels

Code	Model	Plate description
ER100500	ES	Black
ER100530	ES 09	STOP
ER100540	ES 10	START
ER100630	ES 11	UP
ER100640	ES 12	DOWN
ER100890	ES 05	0
ER100600	ES 06	I
ER100650	ES 13	ON
ER100660	ES 14	OFF
ER100670	ES 15	ON-OFF
ER100580	ES 16	→



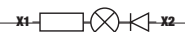
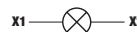
Contact elements for control station, rear mounting

Code	Model	Contact description
ER100080	R 01	1 NC
ER100070	R 10	1 NO



Lamp holders for pushbutton panel boxes, rear mounting

Code	Model	Description	Voltage ~	Lamp
ER100090	BL9R	Direct power supply element	250 V max	220÷250 V / 2.6 W
ER100100	GRR	Element with resistor	220÷240 V	110÷130 V / 2.6 W



*- Bulb not supplied. Use bulbs with BA9S connection.

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22mm diameter operator accessories – Dimensions (mm)

Series and model	Front view	Upper view	Drilling template	Measurements																																																																																																																																																																																											
SD SD...M Empty double insulation boxes				<table><tr><td rowspan="5">Holes</td><td>1</td><td>73</td><td>61</td></tr><tr><td>2v</td><td>106</td><td>94</td></tr><tr><td>3v</td><td>139</td><td>127</td></tr><tr><td>4</td><td>172</td><td>160</td></tr><tr><td>6</td><td>238</td><td>226</td></tr><tr><td>Dimens.</td><td>A</td><td>B</td><td></td></tr></table>	Holes	1	73	61	2v	106	94	3v	139	127	4	172	160	6	238	226	Dimens.	A	B																																																																																																																																																																								
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SM...V SM...O Empty die-cast aluminium enclosures			<table><tr><td rowspan="10">Holes for Ø22</td><td>1</td><td>75</td><td>82</td><td>82</td><td>24</td><td>49</td><td>-</td><td>-</td></tr><tr><td>2v</td><td>75</td><td>82</td><td>141</td><td>24</td><td>108</td><td>52.5</td><td>-</td></tr><tr><td>3v</td><td>75</td><td>82</td><td>195</td><td>24</td><td>155.5</td><td>52.5</td><td>-</td></tr><tr><td>2x2o</td><td>75</td><td>82</td><td>141</td><td>24</td><td>108</td><td>52.5</td><td>32</td></tr><tr><td>2x3v</td><td>75</td><td>82</td><td>195</td><td>24</td><td>155.5</td><td>52.5</td><td>32</td></tr><tr><td>4x2o</td><td>80</td><td>144</td><td>144</td><td>27</td><td>128</td><td>52.5</td><td>32</td></tr><tr><td>2x4v</td><td>75</td><td>82</td><td>247</td><td>27</td><td>210</td><td>52.5</td><td>32</td></tr><tr><td>2x5v</td><td>75</td><td>82</td><td>247</td><td>27</td><td>210</td><td>41</td><td>32</td></tr><tr><td>2x6v</td><td>75</td><td>82</td><td>351</td><td>24</td><td>314</td><td>52.5</td><td>32</td></tr><tr><td>3x4o</td><td>80</td><td>160</td><td>195</td><td>24</td><td>162</td><td>52.5</td><td>32</td></tr><tr><td rowspan="5">Holes for Ø30</td><td>4x4v</td><td>80</td><td>220</td><td>195</td><td>24</td><td>163</td><td>41</td><td>50</td></tr><tr><td>5x4o</td><td>80</td><td>220</td><td>247</td><td>24</td><td>163</td><td>52.5</td><td>32</td></tr><tr><td>5x5o</td><td>80</td><td>220</td><td>247</td><td>24</td><td>163</td><td>41</td><td>32</td></tr><tr><td>1</td><td>75</td><td>82</td><td>82</td><td>24</td><td>49</td><td>-</td><td>-</td></tr><tr><td>2v</td><td>75</td><td>82</td><td>141</td><td>24</td><td>108</td><td>52.5</td><td>-</td></tr><tr><td rowspan="10">Holes for Ø30</td><td>3v</td><td>75</td><td>82</td><td>195</td><td>24</td><td>155.5</td><td>52.5</td><td>-</td></tr><tr><td>2x2o</td><td>80</td><td>144</td><td>144</td><td>27</td><td>128</td><td>52.5</td><td>60</td></tr><tr><td>4v</td><td>75</td><td>82</td><td>247</td><td>24</td><td>210</td><td>52.5</td><td>-</td></tr><tr><td>6v</td><td>75</td><td>82</td><td>351</td><td>24</td><td>314</td><td>52.5</td><td>-</td></tr><tr><td>2x3o</td><td>80</td><td>160</td><td>195</td><td>27</td><td>162</td><td>52.5</td><td>60</td></tr><tr><td>3x3v</td><td>80</td><td>220</td><td>195</td><td>27</td><td>163</td><td>52.5</td><td>60</td></tr><tr><td>3x4o</td><td>80</td><td>220</td><td>247</td><td>27</td><td>214</td><td>52.5</td><td>60</td></tr><tr><td>Dimens.</td><td>A</td><td>B</td><td>C</td><td>D</td><td>G</td><td>I</td><td>H</td></tr></table> v = vertical holes o = horizontal holes	Holes for Ø22	1	75	82	82	24	49	-	-	2v	75	82	141	24	108	52.5	-	3v	75	82	195	24	155.5	52.5	-	2x2o	75	82	141	24	108	52.5	32	2x3v	75	82	195	24	155.5	52.5	32	4x2o	80	144	144	27	128	52.5	32	2x4v	75	82	247	27	210	52.5	32	2x5v	75	82	247	27	210	41	32	2x6v	75	82	351	24	314	52.5	32	3x4o	80	160	195	24	162	52.5	32	Holes for Ø30	4x4v	80	220	195	24	163	41	50	5x4o	80	220	247	24	163	52.5	32	5x5o	80	220	247	24	163	41	32	1	75	82	82	24	49	-	-	2v	75	82	141	24	108	52.5	-	Holes for Ø30	3v	75	82	195	24	155.5	52.5	-	2x2o	80	144	144	27	128	52.5	60	4v	75	82	247	24	210	52.5	-	6v	75	82	351	24	314	52.5	-	2x3o	80	160	195	27	162	52.5	60	3x3v	80	220	195	27	163	52.5	60	3x4o	80	220	247	27	214	52.5	60	Dimens.	A	B	C	D	G	I	H	
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