

Main features

Shape, material and colours



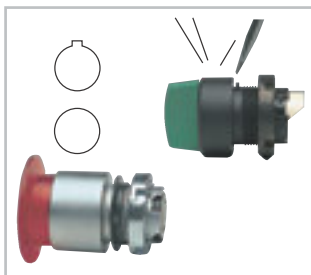
The P9 line offers three types of operators:

- **round in satin chrome**
- **round in engineering thermoplastic**
- **square in engineering thermoplastic**

Modern ergonomic P9 actuators are available in a wide variety of colours and styles, and are the result of superior industrial design experience.

Series P9 satisfies any sophisticated industrial applications.

Fitting and positioning



All the P9 operators are fitted with seal to ensure IP66 degree of protection.

A locating tab on the operator allows the correct positioning on panels with holes drilled according to CENELEC EN 50007 standards (with notch). The tab also ensures panel stability and prevents unwanted rotations.

The tab can be removed with a screwdriver for applications in holes without notch.

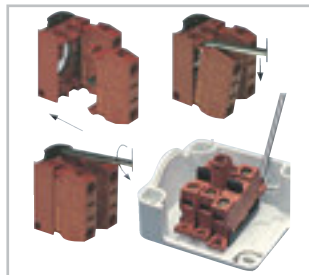
Rear locking and back mounting procedure



P9 operators are back mounted to the panel by a patented locking ring. The units can be assembled using a standard screwdriver.

As an option, an assembly wrench is available.

Fast mounting



All the P9 rear panel devices are snap-on.

Mounting between panel and operator is accomplished by means of a patented snap-on flange which ensures a fast fitting.

For base mounting, the fitting is done directly on the adaptor inside the enclosures base.

Each single block can be mounted or removed individually.

In panel mounting, it is also possible to install or remove the snap-on mounting flange with the contact block group;

Blocks and/or flange can be disassembled by a standard screwdriver, to simplify operations.

Safety and reliability

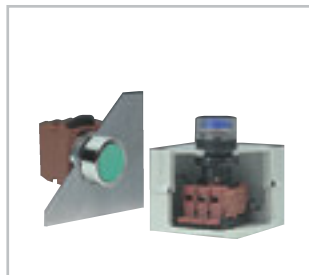


The P9 contact blocks are designed to ensure maximum reliability in every condition and to monitor control circuits at low energy levels

(12V-5mA) minimum), thanks to advanced solution such as:

- four contact points
- high efficiency self-cleaning operation
- silver contacts properly shaped
- high contact pressure

Mounting system



The P9 line offers a wide variety of operators, contact blocks and power supplies for panel mounting.

Furthermore a range of contact blocks and power supplies are available for base mounting.

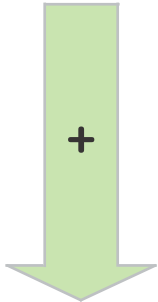
The base mounting option is simple thanks to plastic enclosures fitted with a standard mounting adaptor, which allows a snap-on and secure fastening.

Panel mounting devices



Control units

Standard push-b.  E.11	Mushroom push-button  E.11	Emergency push-button  E.11	Key push-button  E.11	Knob selector sw.  E.12	Lever selector sw.  E.13
Key selector sw.  E.14	Selector push-b.  E.17	Toggle switch  E.17	Joystick  E.17	Emergency lever  E.18	Double push-b.  E.19



Contact blocks  E.20

A

B

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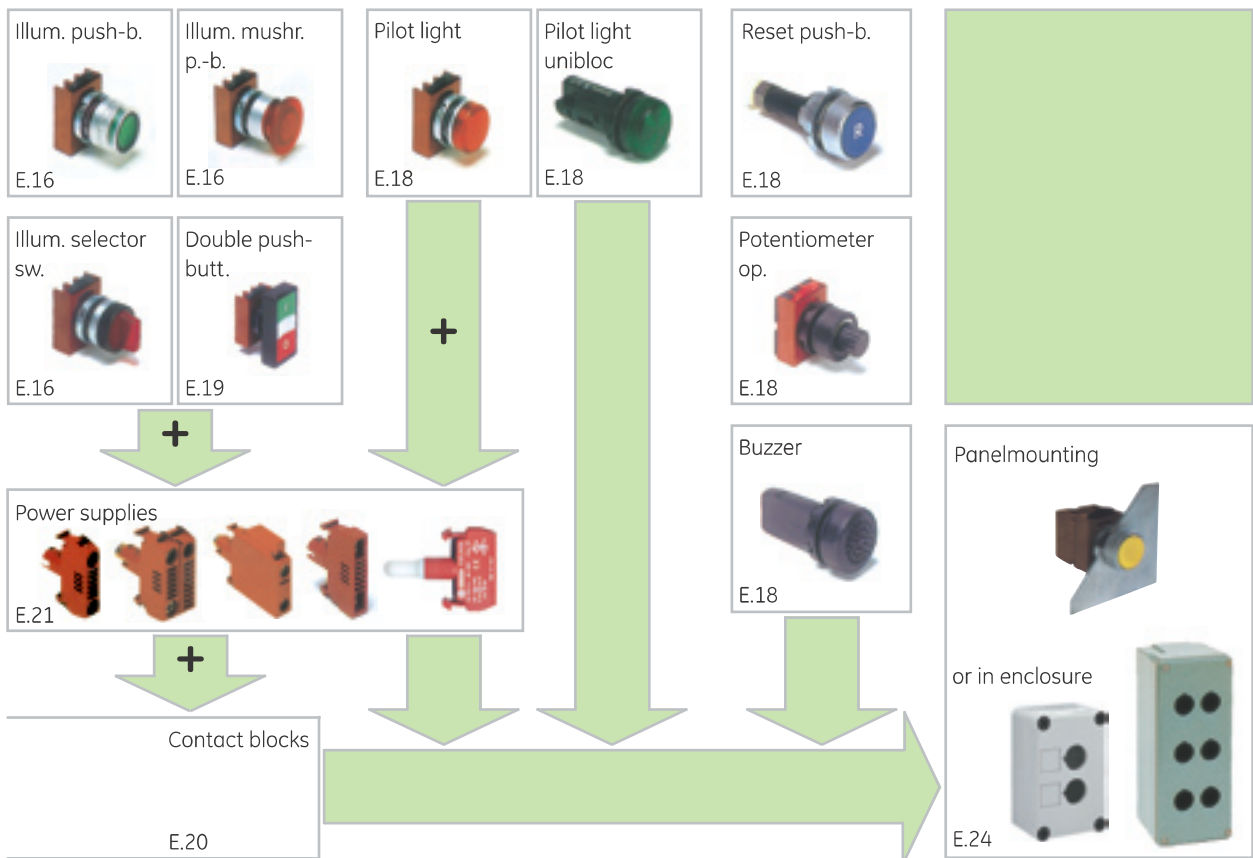
I

X



Illuminated control units Signalling units

Others units



Accessories

General	Push-buttons	Mushroom push-buttons	Selector switches	Illuminated push-buttons	Illuminated mushroom push-buttons	Illuminated selector switches	Pilot lights
Nameplates E.34	Caps E.30	Name plates E.35	Knobs E.32	Diffusers E.31	Lenses E.32	Lenses E.32	Diffusers E.31
Plugs E.33	Rubber caps E.32	Mushr. heads E.32	Levers E.32	Lenses E.32	Collar E.33	Padlock E.33	Lenses E.32
Flanges E.33	Double rubber caps E.19	Collar Ø 40 E.33		Padlock E.33			
Ring wrench E.33	Padlock E.33			Push-on/push-off device E.33			
Neutral plate E.35	Push-on/push-off device E.33			Bulbs BA9S E.34			
	Keys E.34			Bulb extractor E.33			



Series P9

Technical data

Compliance with standards

IEC 947.5.1 - VDE 0660 - NFC 63140
IEC/EN 60947.5.1 - UTE - BSI - NEMA
CENELEC EN 50007

Approvals

cUL U.S. - RINA - CE - GOST R - Lloyd's Register of Shipping - Bureau
Veritas - Germanischer Lloyd

Climatic protections

The standard versions are suitable for use in the following climates:

Temperate climate	cat. 23/50 (DIN 50014)
Wet climate	cat. 23/83 (DIN 50015)
Hot wet climate	cat. 40/92 (DIN 50015)
Variable wet climate	FW24 (DIN 50016)

Temperature ranges

Operation	-25 °C to + 70 °C
Storage	-40 °C to + 70 °C

Protection degree of the operators

IP66 according to CENELEC EN 60529 when they are mounted into enclosures with the same or a higher degree of protection.

Suitable for using into enclosures type NEMA 1-3-3R-3S-4-4X-12-13 according to UL 508.

Protection degree of the terminals

IP2x according to CENELEC EN 60529.

Shock resistance (acc. to MIL 202 B method 202 A)

1/2 sinusoid 11 ms:

No damage or disassembling at 100 g for all devices, except for the illuminated operators with transformer 38 g.

Vibration resistance (according to IEC 68-2-6)

16 g with frequency range from 40 to 500 Hz and maximum shifting 0.75 mm (peak-to-peak).

Rated insulation voltage

690V according to EN 60947.1

Impulse withstand voltage

4 kV according to EN 60947.1

Insulation class

Groep C according VDE 0110

Electrical shocks protection (acc. IEC 536)

Metal operators	Class I
Plastic operators	Class II (double insulation)

Short-circuit protection

With fuses 16A gG according to IEC 269.1 and 269.3.

Performances of the contacts

- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

Electrical resistance of the contact

$\leq 25 \text{ m } \Omega$ according to IEC 255, cat. 3

Identification of the terminals

According CENELEC EN 50013

Electrical performances

Rated thermal current $I_{th} = 10 \text{ A}$

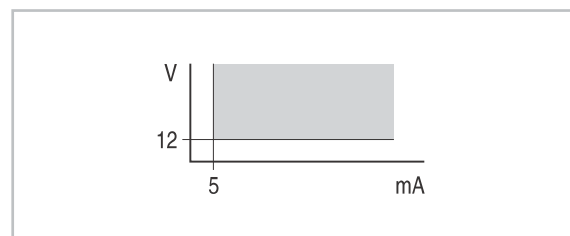
Performances according IEC 947.5.1

Categorie AC 15										
Voltage	Ue (V)	24	48	60	110	220	380	500	600	
Current	Ie (A)	10	10	10	6	3	2	1.5	1.2	
Categorie DC 13										
Voltage	Ue (V)	24	48	60	110	220	300			
Current	Ie (A)	2.5	1.4	1	0.55	0.27	0.2			

Performances according to CSA and UL

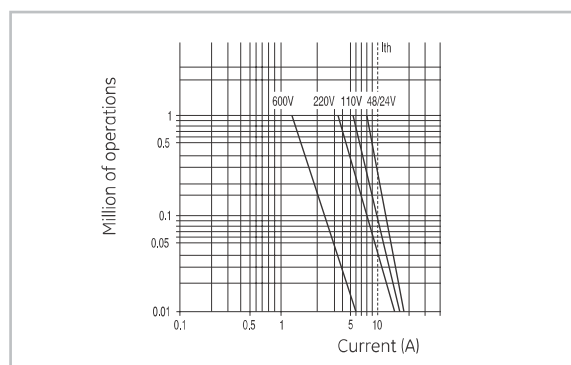
AC Heavy Duty	(A600)
DC Standard Duty	(Q300)

Operating range

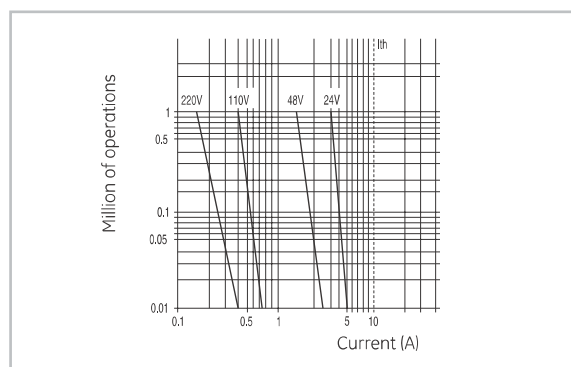


Electrical endurance

Alternative current 50/60 Hz cat. AC 15



Direct current cat. DC 13



Mechanical endurance

Locking emergency	
Mushroom head push-buttons 3 positions	0.3 Mil./op.
Illuminated mushroom head push-buttons 3 pos.	
Joysticks	
Key push-buttons	
Toggle switches	0.5 Mil./op.
Illuminated selector switches	
Push-on push-off device	
Standard selector switches	
Key selector switches	
Illuminated push-buttons	1 Mil./op.
Selector push-buttons	
Emergency lever	
Standard push-buttons	3 Mil./op.
Mushroom head push-buttons	

Rear panel modularity

The P9 series is composed with 10 mm or a multiple of 10 mm modular units, fitted side by side on a proper mounting flange. The standard operators are supplied with a three position flange with a capacity of 3 units of 10 mm or 1 of 10 mm and 1 of 20 mm or 1 of 30 mm.

When the three position flange is not enough to satisfy the applications needs, the five position flange is required to add two more units of 10 mm mounted side by side.

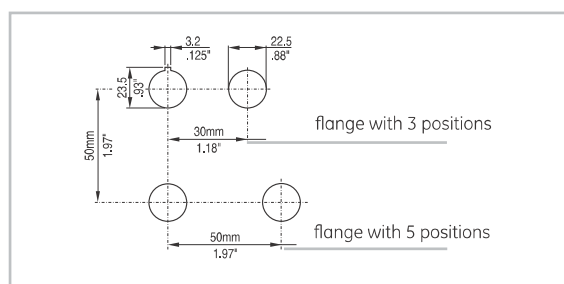
Using the five position flange take into account the bigger with (50 mm instead of 30 mm).

Number of electrical contacts

	Flange	
	standard 3 positions	optional 5 positions
Standard push-buttons		
Mushroom head push-buttons	max 6	max 8
Emergency lever		
Standard selectors	max 4	max 8
Key selector switches		
Joysticks		
Key push-buttons	max 4	-
Selector push-buttons		
Toggle switches		
Mushroom head with lock	max 4	-
Mushroom head push-buttons 3 pos.	max 2	
Illuminated push-buttons		
Illuminated mushroom head push-buttons	max 4	max 4
Illuminated selector switches		
Illuminated mush. push-buttons with lock	max 2	max 2
Illuminated mush. push-buttons 3 pos.		

Mounting

Fitted for panels 1 to 6 mm. thick with holes drilled according to CENELEC EN 50007 standards.



Complete devices

	Description	Contact-block	Power supply	Cap colour	Cat. no.	Ref. no.	Cat. no.	Ref. no.
					Metal		Plastic	
Momentary push-buttons (head + contact block)  	Standard flush	1 NO		Black	P9MPN53007	153007	P9XPN52007	152007
				Green	P9MPN53006	153006	P9XPN52002	152002
	Standard raised	1 NC		Red	P9MPN53061	153061	P9XPN52061	152061
Mushroom/Emergency push-buttons (head + contact block) 	Mushroom head momentary	1 NC		Red Ø 40	P9MEM53111	153111	P9XEM52111	152111
	Mush.with latch pull to release	1 NC		Red Ø 40	P9MET53121	153121	P9XET52121	152121
	Mush.with latch turn to release				P9MER53161	153161	P9XER52161	152161
	Mush.with latch key to release (key 3095)				P9MEC53130	153130	P9XEC52130	152130
Knob selector switch (knob head + contact block) 	2 fixed positions	1 NO		Black	P9MSM53293	153293	P9XSM52293	152293
	3 fixed positions	2 NO		Black	P9MSM53391	153391	P9XSM52391	152321
Knob selector switch (knob head + contact block) 	2 fixed positions	1 NO		Key 3095	P9MSC53435	153435	P9XSC52435	152435
	3 fixed positions	2 NO		Key 3095	P9MSC53497	153497	P9XSC52497	152497

Complete devices

	Description	Contact- block	Power supply	Cap colour	Cat. no.	Ref. no.	Cat. no.	Ref. no.
					Metal		Plastic	
								
Illuminated push-buttons (Head + Standard full voltage power supply+ contact blocks) 	Momentary flush (bulb not included)	1NO		Green	P9MPL53502	153501	P9XPL52502	152502
		1 NC		Red	P9MPL53511	153511	P9XPL52511	152511
		1NO + 1NC		Green Red White	P9MPL53514 P9MPL53515 P9MPL53513	153514 153515 153513	P9XPL52514 P9XPL52515 P9XPL52513	152514 152515 152513
Pilot lights 	Standard diffused lens- Full voltage Power supply			Green	P9MLD53610	153610	P9XLD52610	152610
				Red	P9MLD53611	153611	P9XLD52611	152611
	Standard diffused lens- Integrated LED 24VAC/DC			Green	P9MLD53620	153623	P9XLD52620	152620
				Red	P9MLD53621	153621	P9XLD52621	152621
Double functions push-buttons (Head + contact block & power supply when indicated) 	Flush both caps	1 NO + 1NC		Green-red			P9DPL54700	154700
	Flush both caps - Full voltage power supply	1 NO + 1NC		Green-red			P9DPL54720	154720
	Flush both caps with ISO I/O Full voltage power supply	1 NO + 1NC		Green-red			P9DPL54701	154701
	Flush both caps with ISO I/O	1 NO + 1NC		Green-red			P9DPL54721	154721

Panel mounting

A

B

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I

X

Control and signalling units Ø 22 mm

Notes

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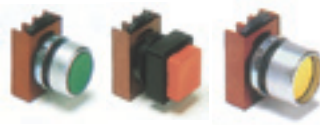
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X



Push-buttons

Standard / Momentary		Description	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
			Metal		Plastic		Plastic	
								
		With flush cap	P9MPN●G		P9XPN●G		P9SPN●G	
		With raised cap	P9MPN●S		P9XPN●S		P9SPN●S	
		Recessed	P9MPN●E					
Mushroom head / Momentary								
		Mushroom head Ø 28 mm	P9MEM3●N		P9XEM3●N*			
		Mushroom head Ø 40 mm	P9MEM4●N		P9XEM4●N*			
		Mushroom head Ø 60 mm	P9MEM6●N				P9SEM3RN	186031
		Mushroom head ∇ 30 mm						
					* Color N or R			
Mushroom head / Emergency with latch								
Standard	Push-pull to release	Mushroom head Ø40 mm	P9MET4●N1		P9XET4●N1		P9SET4R	186061
	Push-twist to release	Red mushroom head Ø28 mm	P9MER3RN	184070	P9XER3RN	185070		
		Red mushroom head Ø40 mm	P9MER4RN	184071	P9XER4RN	185071		
	Push-key to release	Red mushroom head Ø40 mm	P9MEC4RN▲		P9XEC4RN▲			
Positive break in accordance with EN 418	Push-twist to release	Red mushroom head Ø40 mm			P9XER4RAN	185077	P9SER4RA	186072
	Push-twist to release	Red mushroom head Ø40 mm with status indication			P9XER4RAW	185078		
	Push-key to release	Red mushroom head Ø40 mm with key code 3095			P9XEC4RA95N	185079	P9SEC4RA95	186073
Mushroom head / 3 positions								
		Ø40 mm 1-0 fixed. 2 transient	P9MET4●N2					
		Ø40 mm 0 fixed. 1-2 transient	P9MET4●N3					
With keylock ⁽¹⁾								
Key withdrawable in position I & II			normal	P9MPCN1K▲				
			depressed	P9MPCN2K▲				
			normal & depressed	P9MPCN3K▲				
Key withdrawable position III			normal	P9MPCN1E▲				
			depressed	P9MPCN2E▲				
			normal & depressed	P9MPCN3E▲				

(1) Keys on E.14

The catalogue numbers in **bold** are available from stock.

Colours		black	red	green	yellow	brown	blue	white	grey	without cap
Caps	●	N	R	V	G	M	L	B	H	0
Mushroom heads	●	N	R	V	G	-	L	-	-	-

Remark: To complete the catalogue number,
substitute the symbol ● by a letter for the choice of the colour
and the symbol ▲ by a number for the type of the key.

For reference numbers,
see chapter X, pg. X.8



A

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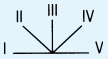
G

H

I

X

Selector switches with knob

2 positions		Function (1)	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	
  									
			Metal		Plastic		Plastic		
									
Fixed		D	P9MSMD0●		P9XSMD0N	185110	P9SSMD0N	186110	
		I	P9MSMI0●		P9XSMI0N	185120	P9SSMI0N	186120	
		H	P9MSMH0●						
	With spring return		D	P9MSMD5●		P9XSMD5N	185150	P9SSMD5N	186140
			I	P9MSMI5●				P9SSMI5N	186150
			H	P9MSMH1●					
3 positions									
  	Fixed		E	P9MSME0●			P9SSME0N	186170	
		L	P9MSML0●						
		U	P9MSMU0●	P9XSMU0N	185190	P9SSMU0N	186190		
		Z, B	P9MSMZ0●	P9XSMZ0N	185200	P9SSMZ0N	186200		
	With spring return		E	P9MSME1●			P9SSME1N	186210	
		L	P9MSML1●						
		U	P9MSMU1●			P9SSMU1N	186230		
		Z, B	P9MSMZ1●	P9XSMZ1N	185240	P9SSMZ1N	186240		
			E	P9MSME5●					
		L	P9MSML5●						
		U	P9MSMU5●						
		Z, B	P9MSMZ5●	P9XSMZ5N	185280	P9SSMZ5N	186280		
		E	P9MSME3●						
	L	P9MSML3●							
	U	P9MSMU3●							
	Z, B	P9MSMZ3●	P9XSMZ3N	185320	P9SSMZ3N	186320			
4 positions									
 	Fixed		X	P9MSMX0●	P9XSMX0N	185330	P9SSMX0N	186330	
	With spring return		X	P9MSMX5●					
5 positions									
	Fixed		X	P9MSMY0●					
			W	P9MSMW0●					

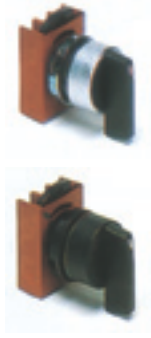
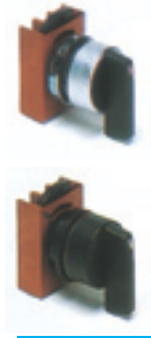
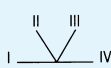
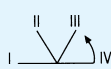
(1) Electrical diagrams, see E.22

The catalogue numbers **in bold** are available from stock.

Colours round shape		black	red	green	yellow	blue
Knobs	●	N	R	V	G	L

For reference numbers, see chapter X, pg. X.8

Selector switches with lever

2 positions		Function (1)	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom				
Metal								Plastic		
										
	Fixed		D	P9MSVD0●		P9XSVD0N	185370			
			I	P9MSVI0●		P9XaSVI0N	185371			
			H	P9MSVH0●						
	With spring return		D	P9MSVD5●		P9XSVD5N	185373			
			I	P9MSVI5●						
			H	P9MSVH1●						
3 positions										
	Fixed		E	P9MSVE0●						
			L	P9MSVL0●						
			U	P9MSVU0●						
			Z, B	P9MSVZ0●		P9XSVZ0N	185379			
	With spring return		E	P9MSVE1●						
			L	P9MSVL1●						
			U	P9MSVU1●						
			Z, B	P9MSVZ1●						
			E	P9MSVE5●						
			L	P9MSVL5●						
			U	P9MSVU5●						
			Z, B	P9MSVZ5●						
			E	P9MSVE3●						
			L	P9MSVL3●						
			U	P9MSVU3●						
			Z, B	P9MSVZ3●		P9XSVZ3N	185391			
4 positions										
	Fixed		X	P9MSVX0●		P9XSVX0N	185392			
	With spring return		X	P9MSVX5●						
5 positions										
	Fixed		X	P9MSVY0●						
			W	P9MSVW0●						

(1) Electrical diagrams, see E.22 The catalogue numbers **in bold** are available from stock.

Colours		black	red	green	yellow	blue
Levers	●	N	R	V	G	L

For reference numbers, see chapter X, pg. X.8



Panel mounting

- A
- B
- C
- D
- E
- F
- G
- H
- I
- X

Selector switches with key

2 positions		Function (1)	Key removal	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom								
Fixed	Metal			Plastic		Plastic (1)											
																	
With spring return		D	I I-II	P9MSCD0A▲ P9MSCD0E▲ P9MSCD0K▲		P9XSCD0A95 P9XSCD0E95 P9XSCD0K95	185400 185401 185402	P9SSCD0A95	186400								
		I	0 I 0-I	P9MSCI0C▲ P9MSCI0E▲ P9MSCI0N▲													
		H	I 0 I-0	P9MSCH0A▲ P9MSCH0C▲ P9MSCH0H▲													
		D	I	P9MSCD5A▲		P9XSCD5A95	185409	P9SSCD5A95	186409								
		I	0	P9MSCI5C▲		P9XSCI5C95	185410	P9SSCI5C95	186410								
		H	0	P9MSCH1C▲													
3 positions		Function (1)	Key removal														
Fixed																	
With spring return		E	I 0 II I-0 I-II 0-II I-0-II	P9MSCE0A▲ P9MSCE0C▲ P9MSCE0E▲ P9MSCE0H▲ P9MSCE0K▲ P9MSCE0N▲ P9MSCE0T▲													
				L	I 0 II I-0 I-II 0-II I-0-II	P9MSCL0A▲ P9MSCL0C▲ P9MSCL0E▲ P9MSCL0H▲ P9MSCL0K▲ P9MSCL0N▲ P9MSCL0T▲											
						U	I 0 II I-0 I-II 0-II I-0-II	P9MSCU0A▲ P9MSCU0C▲ P9MSCU0E▲ P9MSCU0H▲ P9MSCU0K▲ P9MSCU0N▲ P9MSCU0T▲		P9XSCU0T95	185432						
								Z, B	I 0 II I-0 I-II 0-II I-0-II	P9MSCZ0A▲ P9MSCZ0C▲ P9MSCZ0E▲ P9MSCZ0H▲ P9MSCZ0K▲ P9MSCZ0N▲ P9MSCZ0T▲		P9XSCZ0A95 P9XSCZ0C95 P9XSCZ0E95	185433 185434 185435				

(1) Electrical diagrams, see E.22

The catalogue numbers **in bold** are available from stock.

Keys for round metal shape

	Standard version number	▲	95								
	Standard version with specific number	▲	01	02	03	04	05	10	16	19	55 (Ronis)
	FIAT version number	▲	33	34	37	38	40				
	Colour		yellow	black	red	blue	orange				

(1) Key for square shape and round plastic shape, only standard version 95

For reference numbers,
see chapter X, pg. X.8

Selector switches with key

3 positions		Function (1)	Key removal	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
				Metal		Plastic		Plastic (1)	
			E	0	P9MSCE1C▲				
			II	P9MSCE1E▲					
			0-II	P9MSCE1N▲					
			L	0	P9MSCL1C▲				
			II	P9MSCL1E▲					
			0-II	P9MSCL1N▲					
			U	0	P9MSCU1C▲				
			II	P9MSCU1E▲					
			0-II	P9MSCU1N▲					
			Z; B	0	P9MSCZ1C▲				
			II	P9MSCZ1E▲					
			0-II	P9MSCZ1N▲					
			E	I	P9MSCE5A▲				
			0	P9MSCE5C▲					
			I-0	P9MSCE5H▲					
			L	I	P9MSCL5A▲				
			0	P9MSCL5C▲					
			I-0	P9MSCL5H▲					
			U	I	P9MSCU5A▲				
			0	P9MSCU5C▲					
			I-0	P9MSCU5H▲					
			Z, B	I	P9MSCZ5A▲	P9XSCZ5A95	185461	P9SSCZ5A95	186461
			0	P9MSCZ5C▲	P9XSCZ5C95	185462			
			I-0	P9MSCZ5H▲	P9XSCZ5H95	185463			
			E	0	P9MSCE3C▲				
			L	0	P9MSCL3C▲				
			U	0	P9MSCU3C▲				
			Z, B	0	P9MSCZ3C▲	P9XSCZ3C95	185467	P9SSCZ3C95	186467
4 positions			X	I	P9MSCX0A▲				
				II	P9MSCX0B▲				
				III	P9MSCX0D▲				
				IV	P9MSCX0E▲				
				I-II	P9MSCX0F▲				
				I-III	P9MSCX0J▲				
				I-IV	P9MSCX0K▲				
				II-III	P9MSCX0L▲				
				II-IV	P9MSCX0M▲				
				III-IV	P9MSCX0P▲				
				I-II-III	P9MSCX0R▲				
				I-II-IV	P9MSCX0S▲				
				I-III-IV	P9MSCX0U▲				
				II-III-IV	P9MSCX0V▲				
				I-II-III-IV	P9MSCX0Z▲				
			X	I	P9MSCX5A▲				
				II	P9MSCX5B▲				
				III	P9MSCX5D▲				
				I-II	P9MSCX5F▲				
				I-III	P9MSCX5J▲				
				II-III	P9MSCX5L▲				
				I-II-III	P9MSCX5R▲				

(1) Electrical diagrams, see E.22

The catalogue numbers in **bold** are available from stock.

Keys for round metal shape

Standard version number	▲	95								
Standard version with specific number	▲	01	02	03	04	05	10	16	19	55 (Ronis)
FIAT version number	▲	33	34	37	38	40				
Colour		yellow	black	red	blue	orange				

(1) Key for square shape and round plastic shape, only standard version 95

For reference numbers, see chapter X, pg. X.8



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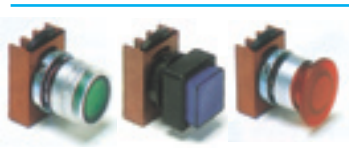
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Illuminated push-buttons

		Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
			see bottom		see bottom		see bottom
		Metal		Plastic		Plastic	
							
Standard / Momentary							
	With diffused lens:						
	Flush	P9MPL●GD		P9XPL●GD		P9SPL●GD	
	Raised	P9MPL●SD		P9XPL●SD		P9SPL●SD	
	Recessed	P9MPL●ED					
Mushroom head / Momentary							
	Mushroom head Ø40 mm	P9MEM4●L		P9XEM4●L*			
	Mushroom head  30 mm					P9SEM3RL	186551
Mushroom head / With latch							
	Push-pull to release						
	Mushroom head Ø40 mm	P9MET4●L1		P9XET4●L1*		P9SET4RL1	186561
				* Color R, V or G			
Mushroom head / 3 positions							
	With mushroom Ø40 mm						
	1-0 fixed, 2 transient	P9MET4●L2		P9XET4RL2	185571		
	0 transient, 1-2 fixed	P9MET4●L3					

Illuminated selector switches with knob

2 positions		Function (1)					
	Fixed		D	P9MSLD0●	P9XSLD0●	P9SSLD0●	
3 positions							
	Fixed		Z, B	P9MSLZ0●	P9XSLZ0●	P9SSLZ0●	
			Z, B	P9MSLZ1●			
	With spring return		Z, B	P9MSLZ5●			
			Z, B	P9MSLZ3●			

Illuminated selector switches with lever

2 positions		Function (1)					
	Fixed		D	P9MSAD0●			
3 positions							
	Fixed		Z, B	P9MSAZ0●			
			Z, B	P9MSAZ1●			
	With spring return		Z, B	P9MSAZ5●			
			Z, B	P9MSAZ3●			

(1) Electrical diagrams, see E.22

The catalogue numbers **in bold** are available from stock.

Colours		red	green	yellow	orange	blue	white	clear
Lens	●	R	V	G	A	L	B	I
Mushroomheads	●	R	V	G	A	L	B	I
Knob/lever	●	R	V	G	A	L	B	I

For reference numbers, see chapter X, pg. X.8



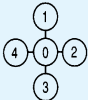
Selector push-buttons (black coloured)

	Function (1)	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
		Metal		Plastic		Plastic	
							
2 positions							
	Fixed		201	P9MPS21G	184690		
			231	P9MPS22G	184691		
			235	P9MPS23G	184692		
3 positions							
	Fixed		301	P9MPS34G	184693		
			323	P9MPS35G	184694		

Toggle switches (black coloured)

2 positions									
	Fixed position	1 2	D	P9MCD	184695	P9XCD	185695	P9SCD	186695
3 positions									
	Fixed position	1 0 2	B	P9MCB	184696				
			B	P9MCC	184697				

Joysticks (black coloured)

2 positions + central zero position ⁽¹⁾									
	Without interlock		fixed positions	P9MMN2F	184700	P9XMN2F	185700		
			transient positions	P9MMN2T	184701	P9XMN2T	185701		
			1 transient - 3 fixed positions	P9MMN2A	184702				
			1 fixed - 3 transient positions	P9MMN2B	184703				
	With interlock		fixed positions	P9MMB2F	184710	P9XMB2F	185710		
			transient positions	P9MMB2T	184711	P9XMB2T	185711		
			1 transient - 3 fixed positions	P9MMB2A	184712	P9XMB2A	185712		
			1 fixed - 1 transient positions	P9MMB2B	184713	P9XMB2B	185713		
4 positions + central zero position ⁽¹⁾									
	Without interlock		fixed positions	P9MMN4F	184720	P9XMN4F	185720		
			transient positions	P9MMN4T	184721	P9XMN4T	185721		
	With interlock		fixed positions	P9MMB4F	184740	P9XMB4F	185740		
			transient positions	P9MMB4T	184741	P9XMB4T	185741		

(1) Electrical diagrams, see E.22

The catalogue numbers **in bold** are available from stock.

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Double function push-buttons ⁽¹⁾

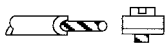
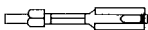
		Colours (2)	Cat. no.	Ref. no.	Cat. no.	Ref. no.
			Plastic caps without symbols		Plastic caps with symbols	
						
IP40 protection (acc. to IEC 529)						
	With white lens assembled for indicator light. Black insert for not illuminated function included in the packaging.	A - Black B - Red	P9DPLNRG00	186880	P9DPLNRG01	186890
		A - Green B - Red	P9DPLVRG00	186881	P9DPLVRG01	186891
		A - Black B - Red	P9DPLNRS00	186882	P9DPLNRS01	186892
		A - Green B - Red	P9DPLVRS00	186883	P9DPLVRS01	186893
Clear cap (silicon rubber)						
	IP66 protection (acc. to IEC 529)	A - flush B - flush	080CPDT	173208	080CPDT	173208
		A - flush B - raised	P9ADCST	187796	P9ADCST	187796

(1) With white lens assembled.
Black insert for not illuminated function included in the packaging.
(2) Integral caps, colours not replacable.

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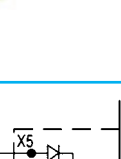
Series P9

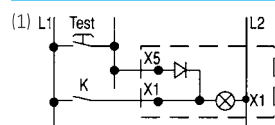
Contact blocks

				Cat. no.	Ref. no.
Logic Reed A new range of LOGIC REED contact blocks with faston terminals for use with power lower than 12V - 5mA. 	Contact type	NC		P9B01FH	187014
		NO		P9B10FH	187015
	Rated voltage	AC2 to 120V max. DC2 to 30V max.			
	Rated current	AC/DC - 0.001 to 0.15A max.			
	Rated power	AC - 8VA max. DC - 4.5W max.			
	Minimum centerline distance	30x32 mm.			
	Mounting on operators	through specific bayonet flange adaptor.		P9ACFSM	187846
	Full voltage power supply			P9PDHF	187056
With screw  min. 1 of 22 AWG (0.32 mm ²) max. 2 of 12 AWG (3.3 mm ²) 			Contact type	Cat. no.	Ref. no.
				   	
			NC+NO	P9B11VN	187000
			NC+NC	P9B02VN	187008
			NO+NO	P9B20VN	187009
			NC	P9B01VN	187001
			NO	P9B10VN	187002
			NC late opening	P9B01VR	187003
			NO early closing	P9B10VA	187004
Faston  1 x (6.35 x 0.8 mm) 2 x (2.8 x 0.8 mm) 			NC	P9B01FN	187012
			NO	P9B10FN	187013
Terminal adapter printed circuit board adapter 				P9ACA6	188804

The catalogue numbers **in bold** are available from stock.

Power supplies

With screw		Position on flange 2 3 1	Contact type	Cat. no.	Ref. no.
 min. 1 of 22 AWG (0.32 mm ²) max. 2 of 12 AWG (3.3 mm ²)				   	
         		   	Full voltage $\cong$ IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDNV0	187020
			Logic Reed fullvoltage for low power	P9PDHF	187056
		   	Long life 110/120V $\cong$ BA9S 130V-2W included	P9PRLVJ	187021
		   	Resistor + Diode 220/240 V $\sim$ BA9S 130V-2W included	P9PRDVN	187022
		  	Resistor 110/120V $\cong$ BA9S 60V-1.2W included	P9PRNVJ	187023
			220/240V $\cong$ BA9S 130V-2W included	P9PRNVN	187024
		  	Resistor ENEL version BA9S 48V-2W included 110V $\cong$	P9PREVJ	187025
			125/127V $\cong$	P9PREVL	187026
		  	UL-CSA: BA9S max 250V-2W not included Test full voltage (1) $\cong$ IEC: BA9S max 380V-2W not included	P9PDTV0	187027
		  	Test resistor (1) 220/240 V $\cong$ BA9S 130V-2W included	P9PRTVN	187028
		  	Transformer 50/60 Hz BA9S 6V-1.5W included	P9PTNV ♦	see bottom
		 	Multifunction (2) full voltage 24V $\cong$ BA9S 24V-2W included	P9PDMVD	187040
			Multifunction (2) full voltage 110V $\cong$ BA9S 130V-2W included	P9PDMVJ	187041
		 	Multifunction (2) Transformer 50/60 Hz BA9S 6V-0.6W included	P9PTMV ♦	see bottom
 Faston 1 x (6.35 x 0.8 mm) 2 x (2.8 x 0.8 mm)		   	Full voltage IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDNF0	187055
 Integrated LED		  	Standard light 24V AC/DC 120V AC 230V AC	P9PLNV ♦ P9PLNVJ ♦ P9PLNVN ♦	see bottom see bottom see bottom
			Flashing light 24V AC/DC 120V AC 230V AC	P9PLFV ♦ P9PLFVJ ♦ P9PLFVJ ♦	see bottom see bottom see bottom



- (2) Y1 Y2 Do not connect for flashing light
Link to external contact in order to have steady or flashing light
C closed = Steady light
C open = Flashing light

LED colour*	orange	white	yellow	blue	red	green
	A	B	G	L	R	V

The catalogue numbers in **bold** are available from stock.

Voltage	110-120	220-250	380	415-440	480-500
♦	J	N	U	W	Y
:	J	N	U	-	-

For reference numbers, see chapter X, pg. X.8



Diagrams

Selector switches

Positions	Function	Contacts	Position on flange 2 3 1
I 90° II	D B10	13 14 11 12	☐ ☐ ☒
	D B10 B01	13 14 21 22	☒ ☐ ☒
	D B11	13 14 11 12	☐ ☐ ☒
0 45° I	I B11	13 14 11 12	☐ ☐ ☒
I 45° 0	H B11 B11	13 14 11 12	☐ ☐ ☒
I 45° 0 45° II	B B10 B10	13 14 23 24	☒ ☐ ☒
I 45° 0 45° II	E B11	13 14 11 12	☐ ☐ ☒
I 45° 0 45° II	L B11	13 14 11 12	☐ ☐ ☒
I 45° 0 45° II	U B11 B11	13 14 23 24 21 22	☒ ☐ ☒
I 45° 0 45° II	Z B11 B11	13 14 23 24 21 22	☒ ☐ ☒
I 45° 0 45° II	Z B10 B01	13 14 21 22	☒ ☐ ☒
II 45° III 45° IV	X B11 B11	13 14 23 24 21 22	☒ ☐ ☒
II 40° III 40° IV 40° V	Y B11 B11	13 14 23 24 21 22	☒ ☐ ☒
II 40° III 40° IV 40° V	W B11 B11	13 14 23 24 21 22	☒ ☐ ☒

Selector push-buttons

Positions	Function	Contacts	Normal	Depressed	Position on flange 2 3 1
 201	B11				
	B11				
 231	B11				
	B11				
 235	B11				
	B11				
 301	B11				
	B11				
 323	B11				
	B11				
 Can not be depressed					

Joysticks

Positions	Contacts	Position on flange 2 3 1
1 0 3	B11 B11	☒ ☐ ☒
1 4 0 2 3	B11 B11	☒ ☐ ☒

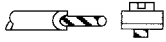
Toggle switches

Positions	Function	Contacts	Position on flange 2 3 1
1 2	D B11	13 14 11 12	☐ ☐ ☒
1 0 2	B B11	13 14 11 12	☐ ☐ ☒

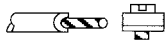
Mushroom head push-buttons 3 pos.

Function	Contacts	Position on flange 2 3 1
2 B01R B01	13 12 21 22	☒ ☐ ☒
3 B11	13 14 11 12	☐ ☐ ☒

Contact blocks

With screw  min. 1 of 22 AWG (0.32 mm²) max. 2 of 12 AWG (3.3 mm²) 	Contact type		Cat. no.	Ref. no.
	1 2 3 4 	NC	P9B01BN	187017
		NO	P9B10BN	187018

Power supplies

With screw	Position on flange 2 3 1	Bulb power supply	Cat. no.	Ref. no.
 min. 1 of 22 AWG (0.32 mm²) max. 2 of 12 AWG (3.3 mm²) 			 	
	X1 ⊗ X2	Full voltage ≡ IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDN80	187070

Integrated LED	x1 ⊗ x2	Standard light		
		24V AC/DC	P9PLNBD•	see bottom
		120V AC	P9PLNB•	see bottom
		230V AC	P9PLNBN•	see bottom

The catalogue numbers **in bold** are available from stock.

LED colour•	orange	white	yellow	blue	red	green
	A	B	G	L	R	V

For reference numbers,
see chapter X, pg. X.8



Push-button stations in thermoplastic (continued)

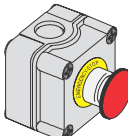
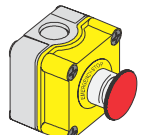
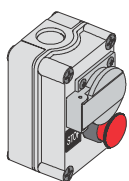
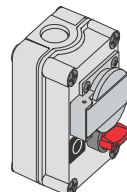
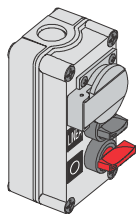
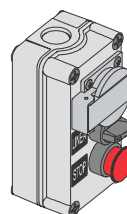
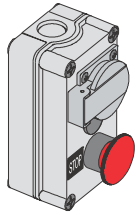
Equipped versions		Operators	Colour	Diagram	Name-plate	Cat. no.	Ref. no.	
	Two units	Flush push-buttons	green		I	P9EPA02Y01	189016	
			red		O			
 	Three units	Full voltage pilot light max 380V-2W not included	BA9S	white		blank	P9EPA03Y01	189018
		Flush push-buttons	green		I			
		Flush push-buttons	red		O			
		Flush push-buttons	black		↑	P9EPA03Y05	189022	
			red		O			
			black		↓			

The catalogue numbers in bold are available from stock.

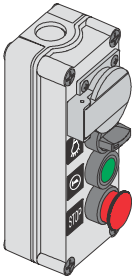


Series P9

Equipped boxes

Specially enclosures to use for shaft lifts (other versions, please contact us)					
Composition		Individual operators	Cat. no.	Ref. no.	Pack
 One operator	Thermoplastic box. 1 element	P9EPE01	P9EPC01X00	215432	1
	Emergency push button mushroom head Ø40, push-pull to release	P9XET4RN1			
	1NC contact block	P9B01VN			
	1NO contact block	P9B10VN			
	Nameplate with inscription "EMERGENCY-STOP"	080XTGR02			
	PG16 packing gland				
	Thermoplastic box. Yellow cover. 1 element	P9EPEG1	P9EPC01X01	215433	1
	Emergency push-button mushroom head Ø40, push-twist to release	P9XER4RN			
	1NC contact block	P9B01VN			
	Nameplate with inscription "EMERGENCY-STOP"	080XTGR02			
 Two operators	Thermoplastic box. 2 elements	P9EPE02	P9EPL02X01	189136	1
	Emergency push-button mushroom head Ø28, push-twist to release	P9XER3RN			
	1NC contact block	P9B01VN			
	Nameplate with inscription "STOP"	P9AELN201			
	16A Schuko socket-outlet with cover				
	Thermoplastic box. 2 elements	P9EPE02	P9EPL02X02	189137	1
	Selector switch, 2 positions, with red knob	P9XSMD0R			
	1NC contact block	P9B01VN			
	Nameplate with inscription "O-I"	P9AELN039			
	16A Schuko socket-outlet with cover				
 Three operators	Thermoplastic box. 3 elements	P9EPE03	P9EPL03X01	189138	1
	Selector switch, 2 positions, with black knob	P9XSMD0N			
	1NC contact block	P9B01VN			
	1NO contact block	P9B10VN			
	Nameplate with inscription "LINEA"	P9AELN523			
	Selector switch, 2 positions, with red lever	P9XSVD0R			
	1NO contact block	P9B10VN			
	Nameplate with inscription "O-I"	P9AELN039			
	16A Schuko socket-outlet with cover				
	Thermoplastic box. 3 elements	P9EPE03	P9EPL03X02	189139	1
	Selector switch, 2 positions, with black knob	P9XSMD0N			
	1NC contact block	P9B01VN			
	1NO contact block	P9B10VN			
	Nameplate with inscription "LINEA"	P9AELN523			
	Emergency push-button mushroom head Ø28, push-twist to release	P9XER3RN			
	1NC contact block	P9B01VN			
	Nameplate with inscription "STOP"	P9AELN201			
	16A Schuko socket-outlet with cover				
	Thermoplastic box. 3 elements	P9EPE03	P9EPL03X03	189140	1
	Emergency push-button mushroom head Ø40, push-twist to release	P9XER4RN			
	1NC contact block	P9B01VN			
	Nameplate with inscription "STOP"	P9AELN201			
	Round plug	P9ARHPR			
	16A Schuko socket-outlet with cover				

Equipped boxes (continued)



Four operators

Specially enclosures to use for shaft lifts (other versions, please contact us)				
Composition	Individual operators	Cat. no.	Ref. no.	Pack
Thermoplastic box, 4 elements	P9EPE04	P9EPL04X01	189141	1
Selector switch, 2 positions, with black knob	P9XSMD0N			
1NC contact block	P9B01VN			
1NO contact block	P9B10VN			
Nameplate with "Light" symbol	P9AELN100			
Standard/momentary push button with flush cap, green	P9XPNVG			
1NO contact block	P9B10VN			
Nameplate with "Bell" symbol	P9AELN099			
Emergency push-button mushroom head Ø28, push-twist to release	P9XER3RN			
1NC contact block	P9B01VN			
Nameplate with inscription "STOP"	P9AELN201			
16A Schuko socket-outlet with cover				

Push-button stations

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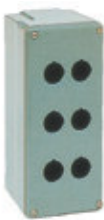
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Push-button stations in aluminium (Grey coloured RAL 7012)

For panel mounting	Protection	Number of holes	Type	Cat. no.	Ref. no.
	IP66 (according to IEC 529, EN 60529)	1	1	080SP1	170801
		1	1M (1)	080SP1M	170831
		2	2	080SP2	170802
		2	2M (1)	080SP2M	170832
		3	3	080SP3	170803
		4	4	080SP4	170804
		4	4M (1)	080SP4M	170834
		6	6	080SP6	170806
		8	8	080SP8	170807
		12	12	080SP12	170808
		18	18	080SP18	170809
		24	24	080SP24	170810
		35	35	080SP35	170811
Cover with holes without conduit entry	IP66 (according to IEC 529, EN 60529)	1	1	080SP1SFE	170836
		1	1M (1)	080SP1MSFE	170839
		2	2	080SP2SFE	170842
		2	2M (1)	080SP2MSFE	170845
		3	3	080SP3SFE	170848
		4	4	080SP4SFE	170850
		4	4M (1)	080SP4MSFE	170851
		6	6	080SP6SFE	170852
		8	8	080SP8SFE	170854
		12	12	080SP12SFE	170857
		18	18	080SP18SFE	170860
		24	24	080SP24SFE	170862
		35	35	080SP35SFE	170864
	IP66 (according to IEC 529, EN 60529)	1	1	080SP1SFC	170835
		1	1M (1)	080SP1MSFC	170838
		2	2	080SP2SFC	170841
		2	2M (1)	080SP2MSFC	170844
		3	3	080SP3SFC	170847
		4	4	080SP4SFC	170841
		4	4M (1)	080SP4MSFC	170844
		6	6	080SP6SFC	170847
		8	8	080SP8SFC	170853
		12	12	080SP12SFC	170856
		18	18	080SP18SFC	170859
		24	24	080SP24SFC	170859
		35	35	080SP35SFC	170863
Cover without holes without conduit entry	IP66 (according to IEC 529, EN 60529)	1	1	080SP1SF	170837
		1	1M (1)	080SP1MSF	170840
		2	2	080SP2SF	170843
		2	2M (1)	080SP2MSF	170846
		3	3	080SP3SF	170849
		4	4	080SP4SF	170843
		4	4M (1)	080SP4MSF	170846
		6	6	080SP6SF	170849
		8	8	080SP8SF	170855
		12	12	080SP12SF	170858
		18	18	080SP18SF	170861
		24	24	080SP24SF	170861
		35	35	080SP35SF	170865

(1) With deep socle

Accessories

Description	Cat. no.	Ref. no.
Kit of two hinges for types 18, 24, 35 with holes	080KCSP	170883

Overall dimensions, see E.41

The catalogue numbers **in bold** are available from stock.

Caps for standard push-buttons

	Colour	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
		Flush and recessed		Raised		Flush		Raised	
Neutral									
		P9ARBG ●	18710 ■	P9ARBS ●	18720 ■	P9ASBG ●	18750 ■	P9ASBS ●	18760 ■
With symbols ⁽¹⁾									
Stop 	Black	P9ARBG N 029	187150	P9ARBS N 029	187250	P9ASBG N 029	187550	P9ASBS N 029	187650
	Red	P9ARBG R 029	187110	P9ARBS R 029	187210	P9ASBG R 029	187510	P9ASBS R 029	187610
Start 	Black	P9ARBG N 028	187111	P9ARBS N 028	187211	P9ASBG N 028	187511	P9ASBS N 028	187611
	Green	P9ARBG V 028	187112	P9ARBS V 028	187212	P9ASBG V 028	187512	P9ASBS V 028	187612
	White	P9ARBG B 028	187151	P9ARBS B 028	187251	P9ASBG B 028	187551	P9ASBS B 028	187651
Continuous rectilinear motion 	Black	P9ARBG N 006	187117	P9ARBS N 006	187217	P9ASBG N 006	187517	P9ASBS N 006	187617
	Green	P9ARBG V 006	187118	P9ARBS V 006	187218	P9ASBG V 006	187518	P9ASBS V 006	187618
	White	P9ARBG B 006	187152	P9ARBS B 006	187252	P9ASBG B 006	187552	P9ASBS B 006	187652
Increase 	Black	P9ARBG N 017	187125						
Decrease 	Black	P9ARBG N 018	187127						
Reset 	Blue	P9ARBG L 037	187143			P9ASBG L 037	187543	P9ASBS L 037	187643
Stop/Reset 	Red	P9ARBG R 036	187144						
Test 	Black	P9ARBG N 030	187145	P9ARBS N 030	187245	P9ASBG N 030	187545	P9ASBS N 030	187645
	Green	P9ARBG V 030	187146	P9ARBS V 030	187246	P9ASBG V 030	187546	P9ASBS V 030	187646
Stop 	Red	P9ARBG R 201	187147	P9ARBS R 201	187247	P9ASBG R 201	187547	P9ASBS R 201	187647
Start 	Black	P9ARBG N 202	187148	P9ARBS N 202	187248	P9ASBG N 202	187548	P9ASBS N 202	187648
	Green	P9ARBG V 202	187149	P9ARBS V 202	187249	P9ASBG V 202	187549	P9ASBS V 202	187649
	White	P9ARBG B 202	188909	P9ARBS B 202	188978	P9ASBG B 202	189859	P9ASBS B 202	189928

(1) Other symbols on request

The catalogue numbers **in bold** are available from stock.

Colours		black	red	green	yellow	brown	blue	white	grey
Caps	●	N	R	V	G	M	L	B	H

Diffusers/insert for illuminated units

		Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.		
		For pilot lights		For illuminated push buttons		For pilot lights and illuminated push buttons			
									
Neutral		P9ARDLS	187300	P9ARDPL	187350	080QDF	173220		
With symbols ⁽¹⁾		on white background							
Stop		P9ARDLS029	187301	P9ARDPL029	187351	080QDF029	187701		
Start		P9ARDLS028	187302	P9ARDPL028	187352	080QDF028	187702		
Continuous rectilinear motion		P9ARDLS006	187305	P9ARDPL006	187355	080QDF006	187705		
Increase		P9ARDLS017	187309	P9ARDPL017	187359	080QDF017	187709		
Decrease		P9ARDLS018	187310	P9ARDPL018	187360	080QDF018	187710		
Auto cycle		P9ARDLS026	187311	P9ARDPL026	187361	080QDF026	187711		
Manual		P9ARDLS027	187312	P9ARDPL027	187362	080QDF027	185788		
Locking		P9ARDLS031	187313	P9ARDPL031	187363	080QDF031	187713		
Releasing		P9ARDLS032	187314	P9ARDPL032	187364	080QDF032	187714		
Coolant		P9ARDLS001	187315	P9ARDPL001	187365	080QDF001	187715		
Light		P9ARDLS002	187316	P9ARDPL002	187366	080QDF002	187716		
Test		P9ARDLS030	187318	P9ARDPL030	187368	080QDF030	185789		
Stop		P9ARDLS201	187319	P9ARDPL201	187369	080QDF201	187719		
Start		P9ARDLS202	187320	P9ARDPL202	187370	080QDF202	187720		

(1) Other symbols on request

The catalogue numbers in **bold** are available from stock.

A

B

C

D

E

F

G

H

I

X

Mushroom heads

Description		Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
		Plastic		Plastic	
Momentary operators	Ø 28 mm	P9ARB3●			
	Ø 40 mm	P9ARB4●			
	Ø 60 mm	P9ARB6●			
	Ø 30 mm			P9ASB3●	
Push-pull operators	Ø 40 mm	P9ACB4●		P9ACB4●	

Knobs and levers

Description		Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
		Plastic		Plastic	
Knob for selector switches		P9ACMN●		P9ACMN●	
Lever for selector switches		P9ARMV●			

Lenses

Description		Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
		Plastic		Plastic	
Pilot lights	diffused version	P9ARGLD●		P9ASGLD●	
	refracted version	P9ARGLR●			
	glass version	P9ARGLV●			
Illuminated push-buttons	diffused version	P9ARGPD●		P9ASGPD●	
Illuminated mushroom head push-b.	momentary Ø 40 mm	P9ARGP4●			
	Ø 30 mm				
	push-pull Ø 40 mm	P9ACGP4●			
Illuminated selector switches	knob	P9ACGSL●		P9ACGSL●	
	lever	P9ARGSA●			

Rubber protective caps (IP66)

Description		Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom
		Plastic		Plastic	
Standard flush push-buttons	coloured (nitrilic rubber)	080CP●		P9ASCG●	
	clear (silicon rubber)	080CPT	170198	P9ASCGT	170790
Raised push buttons	clear (silicon rubber)	P9ARCST	187490	P9ASCST	187791

Spare boots for joysticks

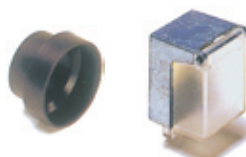
 (a)  (b)	Standard rubber boot for joystick	(a)	P9ARSCMN	188043	
	Standard rubber boot for joystick with interlock	(a)	P9ARSCMB	188044	
	Silicone boot for joystick	(b)	P9ARSGMN	187495	
	Silicone boot for joystick with interlock	(b)	P9ARSGMB	187496	

The catalogue numbers in **bold** are available from stock.

Colours		black	red	green	yellow	orange	blue	white	clear
Mushroom heads	●	N	R	V	G	-	L	-	-
Knobs/lever	●	N	R	V	G	-	L	-	-
Lenses	●	-	R	V	G	A	L	B	I
Protective caps	●	N	R	V	G	-	-	-	-

For reference numbers,
see chapter X, pg. X.8

Common accessories

Plugs	Description	Cat. no.	Ref. no.	Cat. no.	Ref. no.
		Plastic		Plastic	
	Round	P9ARHPR	187491		
	Square 30 x 30 mm			P9ASHP3	187792
	Rectangular 30 x 50 mm			P9ASHP5	187793
Protections					
	Collar for mushroom head push-buttons Ø40 mm.	P9ARRE4	187492		
	Protection cover padlockable for standard push-buttons, illuminated push-buttons, selector switches, illuminated selector switches with knob.	P9ACRCL	187840	P9ACRCL	187840
Flanges					
	With three positions Centre distances 30 x 50 mm	P9ACFS3	187841	P9ACFS3	187841
	With five positions Centre distances 50 x 50 mm	P9ACFS5	187842	P9ACFS5	187842
	With two positions For Logic Reed contact blocks	P9ACFSM	187846	P9ACFSM	187846
Adapter screw plug-in terminal					
	Only for Logic Reed contact blocks and power supplies	P9ACAFV	187847	P9ACAFV	187847
Adapter					
	Gives round control and signalling units a square appearance. Made in black thermoplastic. Can be used with nameplate for square operators P9ASTBS (see P.30). Excluded for mushroom flush buttons with positive break and types with 3 positions.	P9ARSN1	188805		
Push-on/push off					
	Device for standard push-buttons and illuminated push-buttons. To be added only to single pole contact blocks. The NO-contacts must be early closing types.	P9ACDPP	187843	P9ACDPP	187843
Extended screw					
	For reset push-buttons (setting min. 80, max. 170 mm)	P9ACVLR	187844	P9ACVLR	187844
Central contact driving plug					
	For standard momentary push-buttons and momentary mushroom head push-buttons.			P9ASHAC	187794
Tools					
	Locking ring wrench	P9ACWAF	187845	P9ACWAF	187845
	Bulb extractor	080ESL	170212	080ESL	170212
	Extractor for caps and lenses			P9ASEBG	187795

The catalogue numbers **in bold** are available from stock.

Spare keys

Description		Cat. no.	Ref. no.	
		Plastic		
				
Standard version		Code		
		3095	077C3095	173095
		9901	077C9901	173901
		9902	077C9902	173902
		9903	077C9903	173903
		9904	077C9904	173904
		9905	077C9905	173905
		9910	077C9910	173910
		9916	077C9916	173916
		9919	077C9919	173919
		3353	077C3353	173353
		(Ronis) 455	077CR455	173455
FIAT version		Colour	Code	
		yellow	73033	077CF73033 173033
		black	73034	077CF73034 173034
		red	73037	077CF73037 173037
		blue	73038	077CF73038 173038
		orange	73040	077CF73040 173040

Bulbs BA9s

Description		Cat. no.	Ref. no.	
		Plastic		
				
Filament type		Vn	Vn	
		6	0.6	BA9S606 187850
		6	1.5	BA9S615 187851
		12	2.0	BA9S122 187852
		24	2.0	BA9S242 187853
		30	2.1	BA9S30 187854
		48	2.0	BA9S48 187855
		60	1.2	BA9S6012 187856
		130	2.0	BA9S130 187857
Neon type				
		110	0.11	BA9SN110 187860
		220	0.33	BA9SN220 187861
Mono LED		VN AC/DC ± 10%		
		6	BA9S6L	see bottom
		12	BA9S12L	see bottom
		24	BA9S24L	see bottom
		48	BA9S48L	see bottom
		110	BA9S110L	see bottom
		(AC) 230	BA9S230L	see bottom

Colours	red	green	yellow	blue	white
•	R	V	G	L	B

Insert holders

Description		Cat. no.	Ref. no.	Cat. no.	Ref. no.
		Plastic		Plastic	
					
Supplied with neutral insert engravable on both sides or transparent.					
Standard 30 x 50 mm					
		Background black/red, white text	P9ARTBS 188000	P9ASTBS 188010	
		Background white, black text	P9ARTWS 188005	P9ASTWS 188011	
		Transparent	P9ARTTS 188012	P9ASTTS 188014	
Extended 45 x 50 mm					
		Background black/red, white text	P9ARTBM 188001		
		Background white, black text	P9ARTWM 188008		
		Transparent	P9ARTTM 188019		

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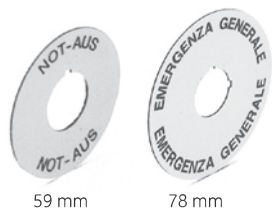
For reference numbers, see chapter X, pg. X.8

Rectangular inserts

For insert holders 30 x 50 mm		Neutral							
		Description	Cat. no.	Ref. no.	Description	Cat. no.	Ref. no.		
START		black/red background	P9ACPBS	188015					
		white background	P9ACPWS	188017					
		transparent	P9ACPTS	188018					
	English (1)				French (1)				
		black background	START	P9ACPBS202	188202	black background	MARCHE	P9ACPBS308	188308
			STOP	P9ACPBS201	188201		ARRET	P9ACPBS301	188301
			REVERSE	P9ACPBS215	188215		AVANT	P9ACPBS303	188303
			CLOSE	P9ACPBS205	188205		ARRIERE	P9ACPBS302	188302
			OPEN	P9ACPBS206	188206		FERMER	P9ACPBS309	188309
			UP	P9ACPBS204	188204		OUVRIR	P9ACPBS316	188316
			DOWN	P9ACPBS203	188203		MONTEE	P9ACPBS317	188317
			LEFT	P9ACPBS222	188222		DESCENTE	P9ACPBS304	188304
			RIGHT	P9ACPBS224	188224		GAUCHE	P9ACPBS306	188306
			FAST	P9ACPBS208	188208		DROITE	P9ACPBS305	188305
	MARCHE			SLOW	P9ACPBS207	188207		VITE	P9ACPBS324
			OPEN-CLOSE	P9ACPBS234	188234		LENT	P9ACPBS307	188307
			HAND-AUTO	P9ACPBS243	188243		OUVERT-FERME	P9ACPBS335	188335
			STOP-START	P9ACPBS232	188232		MAIN-AUTO	P9ACPBS336	188336
			FORWARD-REVERSE	P9ACPBS231	188231		ARRET-MARCHE	P9ACPBS328	188328
			OFF-ON	P9ACPBS233	188233		AVANT-ARRIERE	P9ACPBS332	188332
			AUTO-OFF-HAND	P9ACPBS258	188258		HORS-EN	P9ACPBS331	188331
			FORWARD-0-REVERSE	P9ACPBS239	188239		AUTO-0-MAIN	P9ACPBS334	188334
			0-1	P9ACPBS039	188030		AVANT-0-ARRIERE	P9ACPBS333	188333
							0-1	P9ACPBS039	188030
For insert holders 45 x 50 mm		Neutral							
		black/red background, white text	P9ARPB	188002					
		white background, black text	P9ARPW	188028					
		transparent	P9ARPT	188019					

Round plates for emergency

		Diameter 59 mm			Diameter 78 mm		
		Description	Cat. no.	Ref. no.	Description	Cat. no.	Ref. no.
Without text		yellow background	080XTGR	179514	black background	080XTG8	179515
		yellow background			black background		
With text		EMERGENZA	080XTGR01	179525	EMERGENZA	080XTG801	179535
		EMERGENCY STOP	080XTGR02	179526	EMERGENCY STOP	080XTG802	179536
		ARRET D'URGENCE	080XTGR03	179510	ARRET D'URGENCE	080XTG803	179511
		NOT - AUS	080XTGR04	179527	NOT - AUS	080XTG804	179537
		NOODSTOP	080XTGR05	179528	NOODSTOP	080XTG805	179538
		PARO EMERGENCIA	080XTGR06	179529	PARO EMERGENCIA	080XTG806	179539
		NOTSTOP	080XTGR07	179530	EMERGENZA GENERALE	080XTG807	179540
		PARAGEM EMERGÊNCIA	080XTGR08	179531	PARAGEM EMERGÊNCIA	080XTG808	179541



59 mm

78 mm

Neutral plate

		Description	Cat. no.	Ref. no.			
		For identification of contact blocks and power supplies	P9ACPIU	188016			



Snap-on system

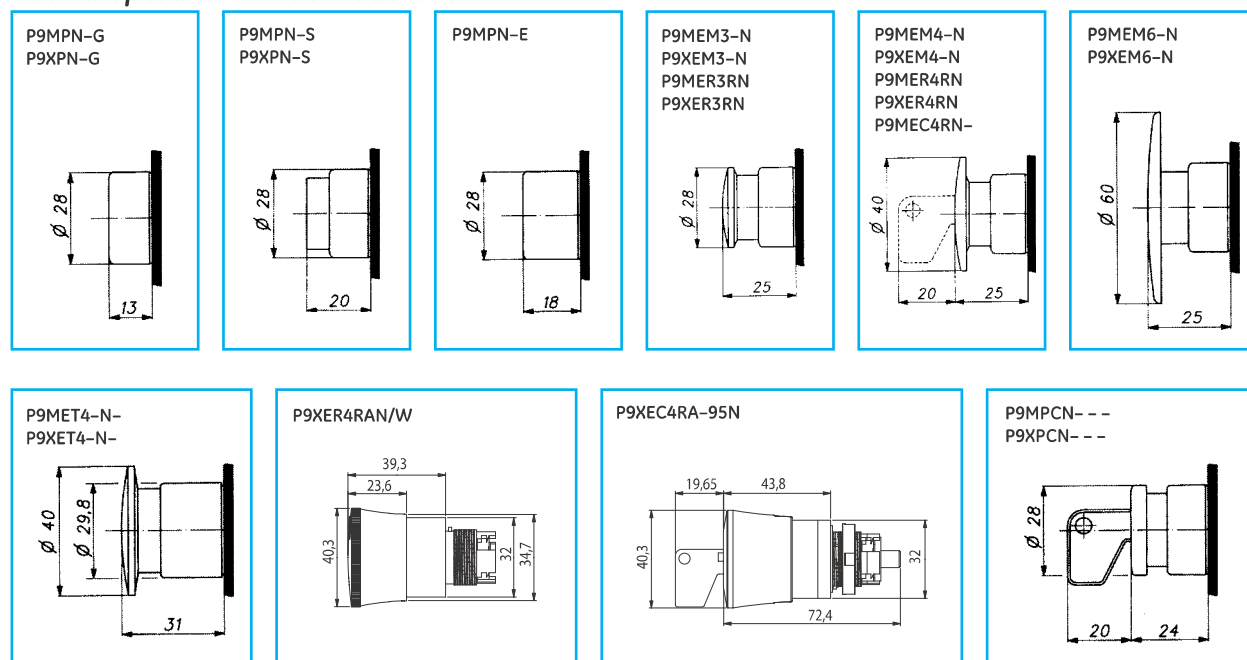
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The catalogue numbers **in bold** are available from stock.

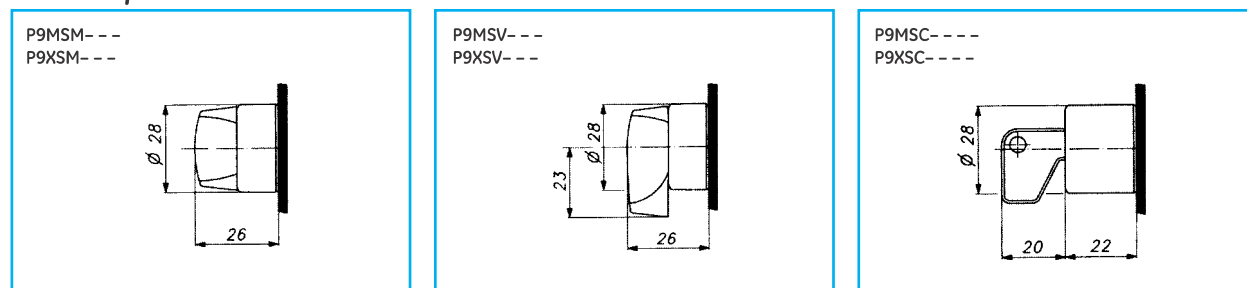
Series P9

Dimensional drawings

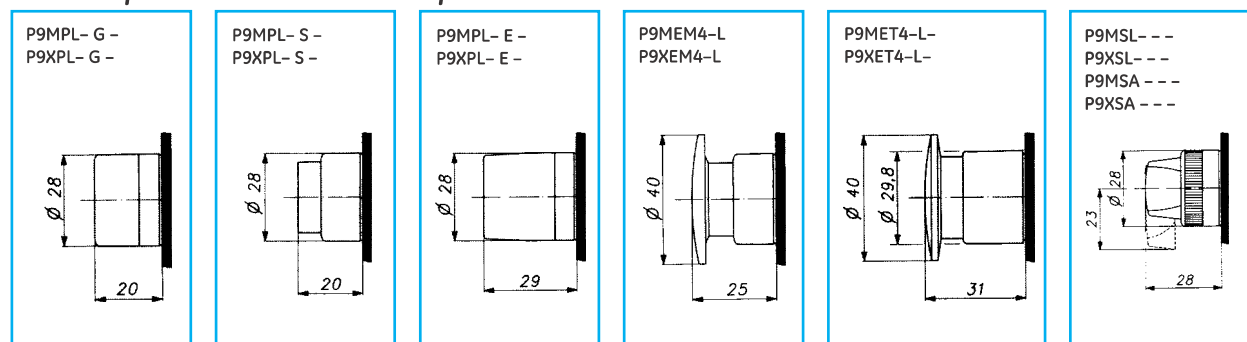
Round operators - Push-buttons



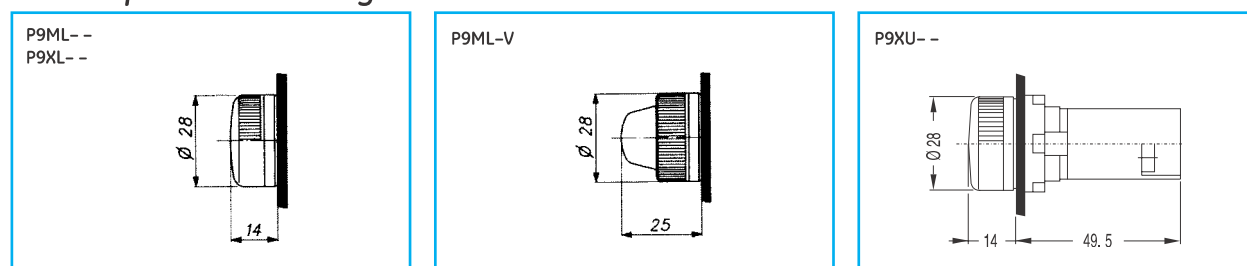
Round operators - Selector switches



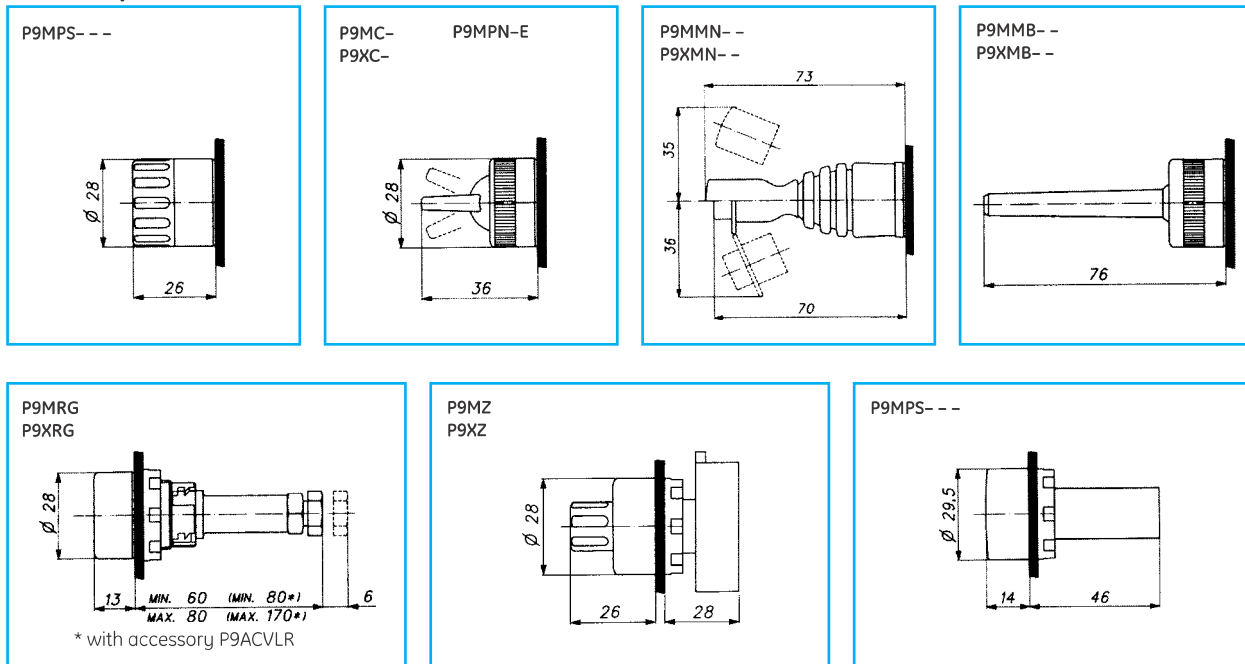
Round operators - Illuminated push-buttons and selector switches



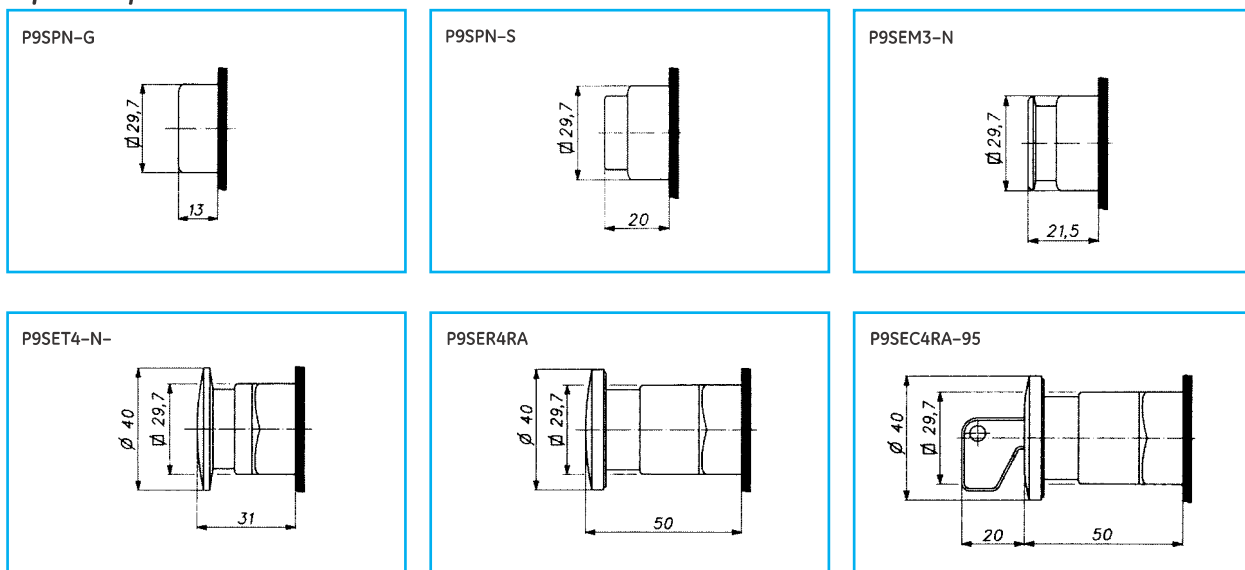
Round operators - Pilot lights



Round operators - Other devices



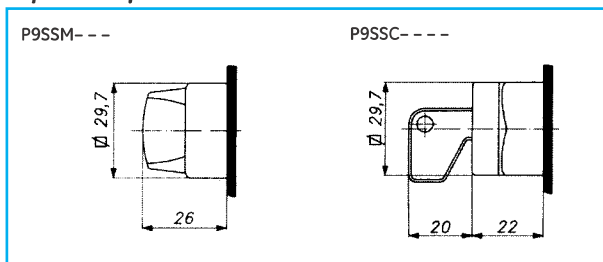
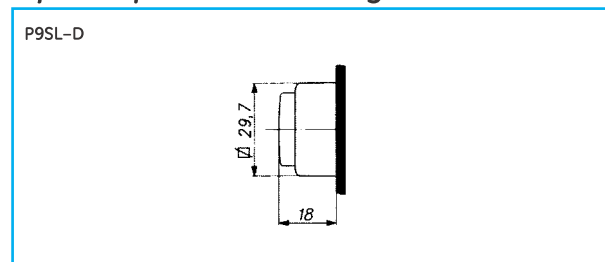
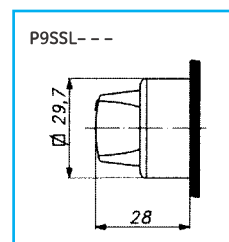
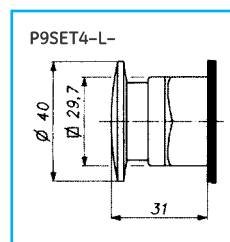
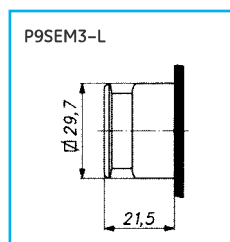
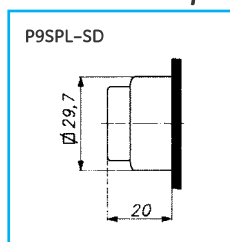
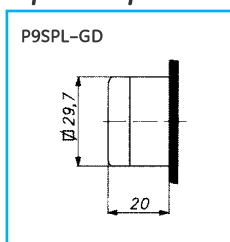
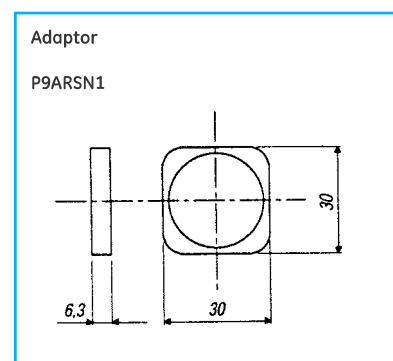
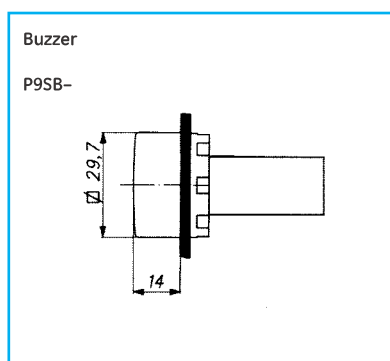
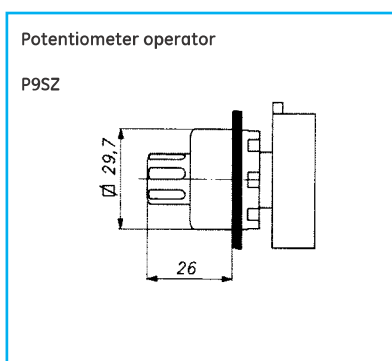
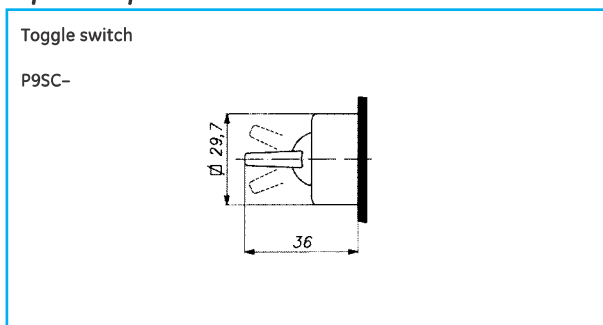
Square operators - Push-buttons



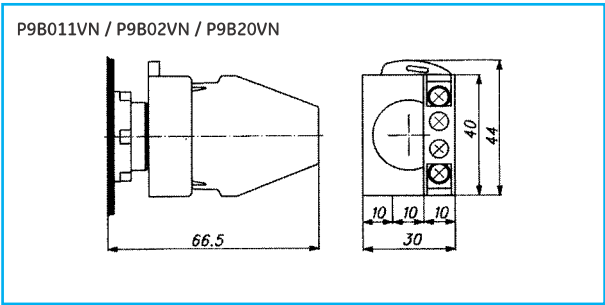
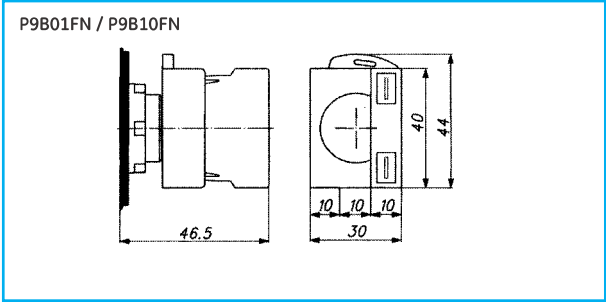
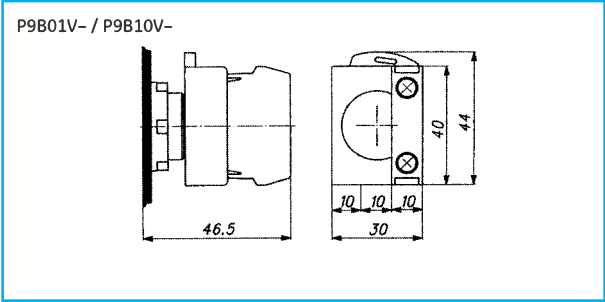
Square operators - Double function push-buttons



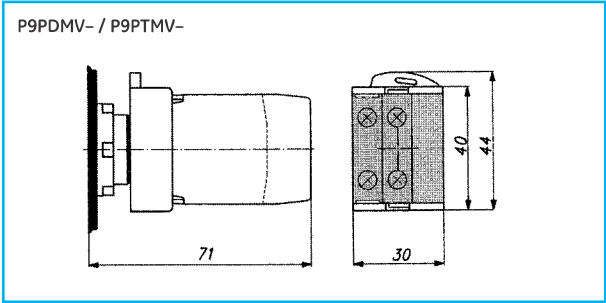
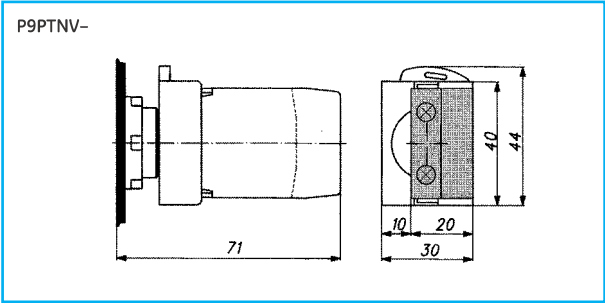
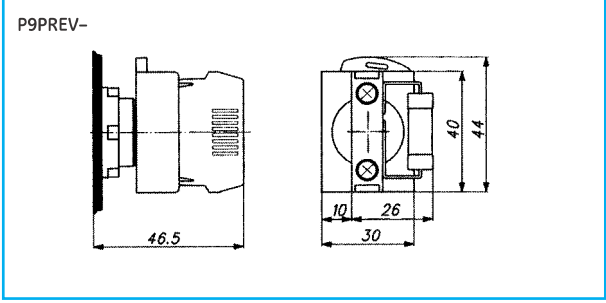
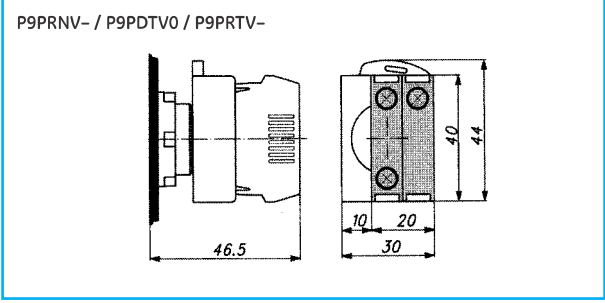
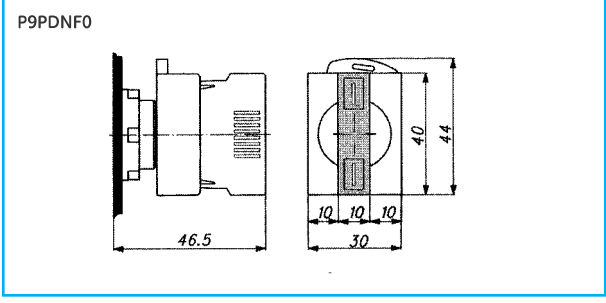
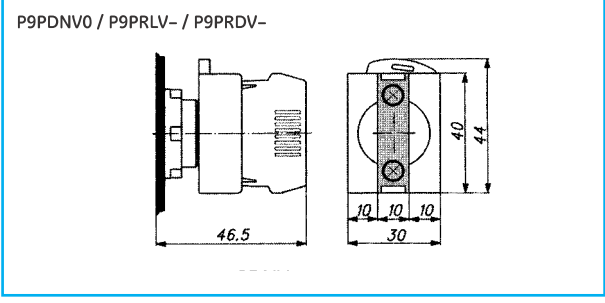
Series P9

*Dimensional drawings**Square operators - Selector switches**Square operators - Pilot lights**Square operators - Illuminated push-buttons and selector switches**Square operators - Other devices*

Contact blocks



Power supplies

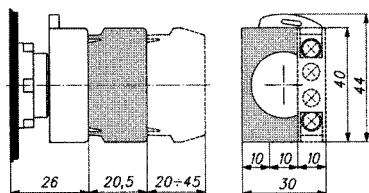


Series P9

Dimensional drawings

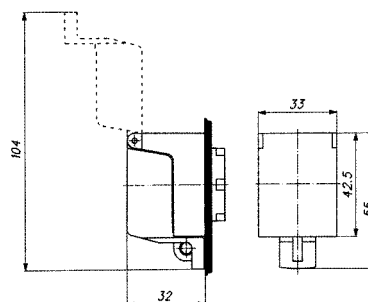
Push-on / push-off devices

P9ACDPP

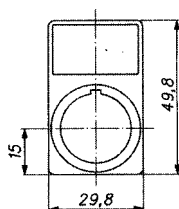
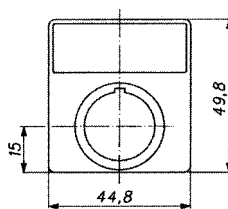
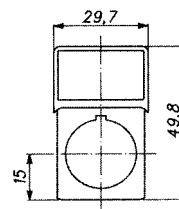


Protection cover

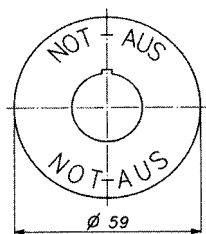
P9ACRCL



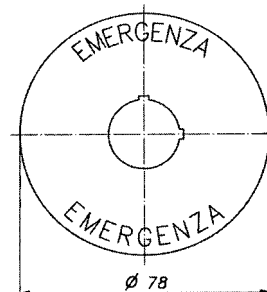
Insert holders and plates

P9ARTBS
P9ARTWS
P9ARTTSP9ARTBM
P9ARTWM
P9ARTTMP9ASTBS
P9ASTWS
P9ASTTS

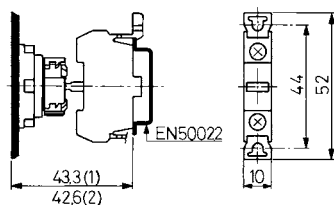
080XTGR--



080XTG8--

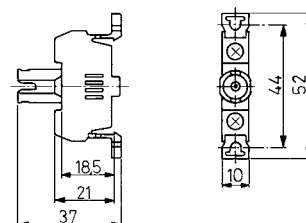


Contact blocks

P9B01BN
P9B10BN(1) With insert holder
(2) Without insert holder

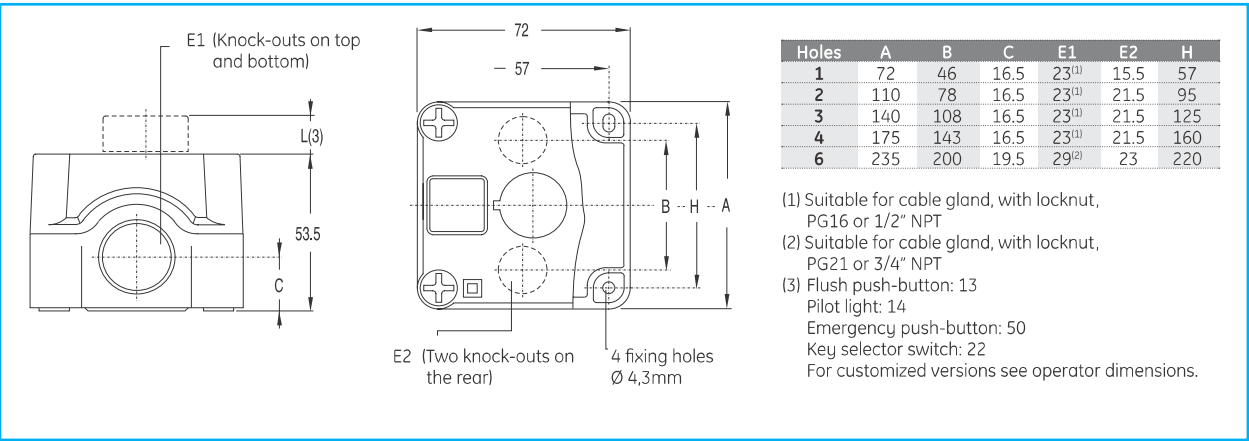
Power supplies

P9PDNBO



Overall dimensions

Enclosures for push-button stations in thermoplastic



Enclosures for push-button stations in aluminium

