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E

Control and signalling units

- E.25 **Order codes - Base mounting devices**
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- E.40 **Overall dimensions**
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Main features

Shape, material and colours



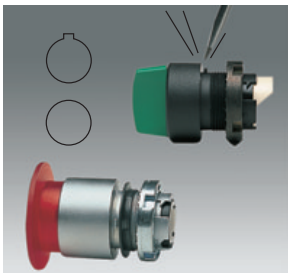
The P9 line offers three types of operators:

- **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.

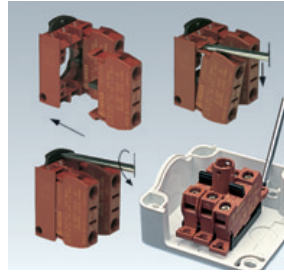
Rear locking and back mounting procedure



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.

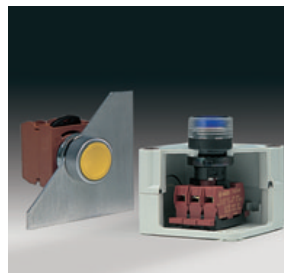
Safety and reliability



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

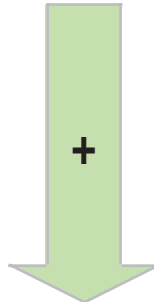


Panel mounting devices



Control units

Standard push-b. E.13 	Mushroom push-b. E.13 	Emergency p.-b. E.13 	Key push-button E.13 	Knob selector sw. E.14 	Lever selector sw. E.15
Key selector sw. E.16 	Selector push-b. E.19 	Toggle switch E.19 	Joystick E.19 	Emergency lever E.20 	Double push-b. E.21



Contact blocks E.22

Base mounting devices



Control units

Standard push-b. E.25 	Mushroom push-b. E.25 	Emergency p.-b. E.25
Knob selector sw. E.26 	Key selector sw. E.26 	

Illuminated control units

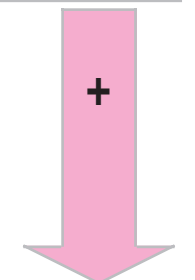
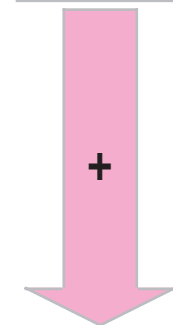
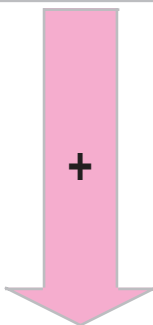
Illum. push-button E.25

Signalling units

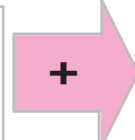
Pilot lights E.25



Power supplies E.27



Contact blocks P.27

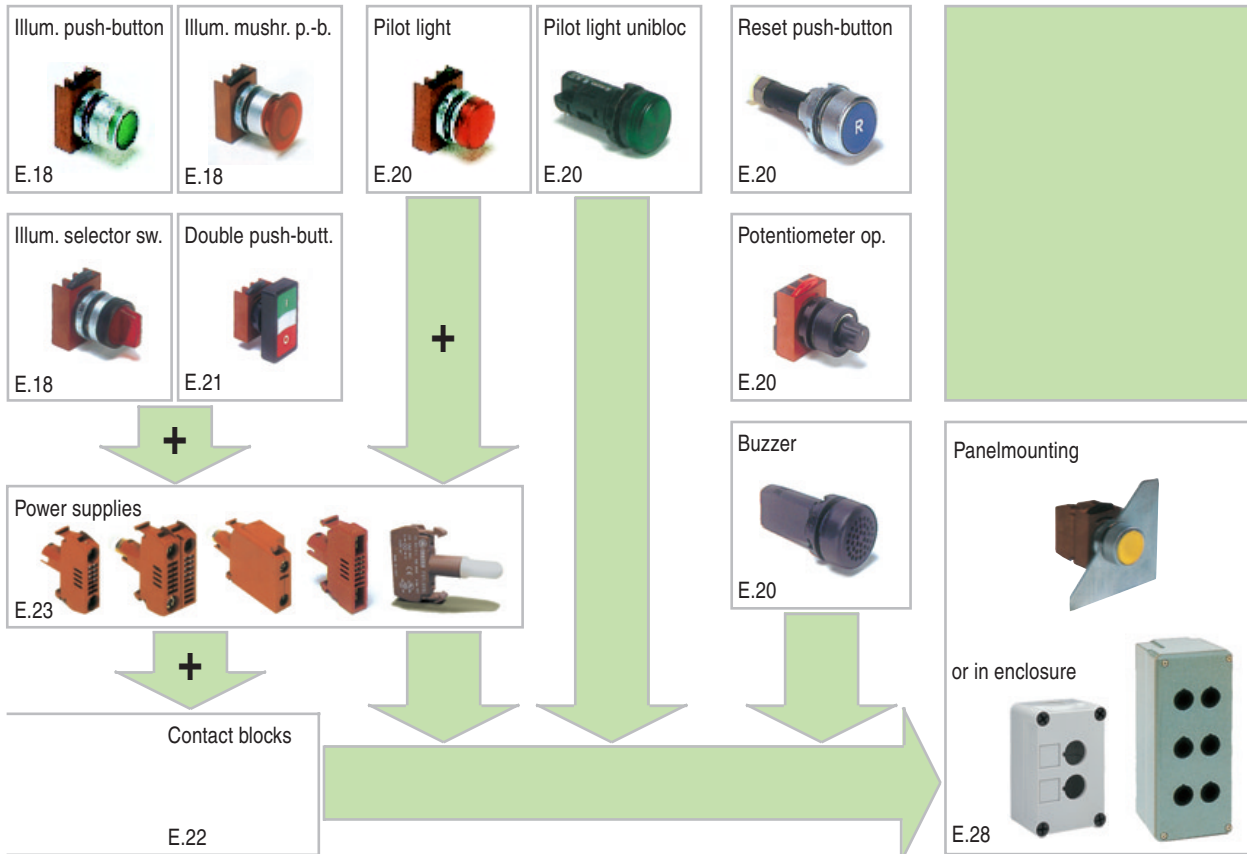


Enclosures E.28

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.38	Caps E.34	Name plates E.39	Knobs E.36	Diffusers E.35	Lenses E.36	Lenses E.36	Diffusers E.35
Plugs E.37	Rubber caps E.36	Mushr. heads E.36	Levers E.36	Lenses E.36	Collar E.37	Padlock E.37	Lenses E.36
Flanges E.37	Double rubber caps E.21	Collar Ø 40 E.37		Padlock E.37			
Ring wrench E.37	Padlock E.37			Push-on/ push-off device E.37			
Neutral plate E.39	Push-on/ push-off device E.37			Bulbs BA9S E.38			
	Keys E.38			Bulb extractor E.37			

Technical data

Compliance with standards

IEC 947.5.1 - VDE 0660 - NFC63140
CEI EN60947.5.1 - UTE - BSI - NEMA
CENELEC EN 50007

Approvals

UL (U.S.A) - CSA (Canada) - RINA
Lloyd's Register of Shipping - Bureau Veritas

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

≤ 25 m Ω according to IEC255, cat. 3

Identification of the terminals

According CENELEC EN 50013

Electrical performances

Rated thermal current I_{th} = 10 A

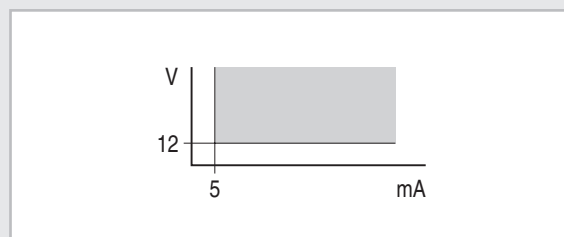
Performances according IEC 947.5.1

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

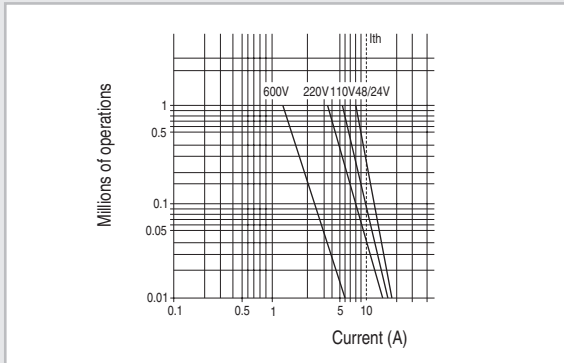
AC Heavy Duty (A600)	
DC Standard Duty (Q300)	

Operating range

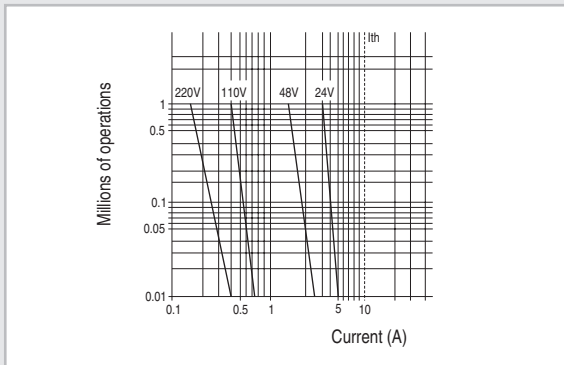


Electrical endurance

Alternative current 50/60 Hz cat. AC 15



Direct current cat. DC 13



Mechanical endurance

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

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.

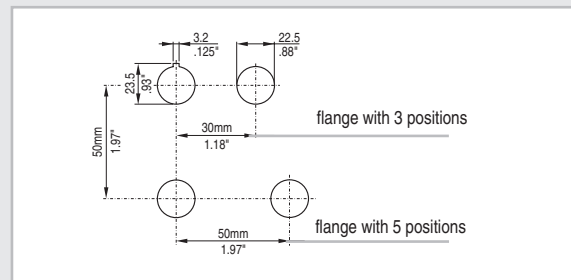
Using the five position flange take into account the bigger with (50 mm instead of 30 mm).

Number of electrical contacts

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

Mounting

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



Nomenclature

Standard & illuminated push-buttons

Style	Type	Type	Cap colour	Push-button type	Lens type	
M = Round satin chrome X = Round plastic S = Square plastic	P = Push button	N = Non illuminated L = Illuminated	O = No cap N = Black R = Red V = Green G = Yellow L = Blue B = White M = Brown H = Grey	G = Flush S = Extended E = Recessed	D = Diffused for illuminated push button only	

Double function push-buttons

Style	Type	Type	Cap colour	Push-button type	ISO symbols	
	P = Push button	L = Illuminated	V = Green N = Black	G = Flush S = Top flush bottom extended	00 = No sym. 01 = With sym.	

Pilot lights

Style	Type	Colour	Lens type	For Unibloc type only	
M = Round satin chrome X = Round plastic S = Square plastic	L = Standard U = Unibloc	R = Red V = Green G = Yellow L = Blue B = White I = Clear A = Orange	D = Diffused R = Refracted V = Glass	D0 = Full voltage RN = With resistor	

E

Mushroom head push-buttons

Style	Type	Mushroom diameter	Colour	Illumination	Key selection	
M = Round satin chrome X = Round plastic S = Square plastic	M = Momentary T = Push/Pull R = Turn to reset C = Key to reset	3 = Ø 28 mm 4 = Ø 40 mm 6 = Ø 60 mm	N = Black R = Red V = Green G = Yellow	N = Non illuminated L = Illuminated	See key selection table on E.16	

Nomenclature

Knob & lever selector switches

P9		S				
Style	Type	Type	Cam	Spring return	Colour	
M = Round satin chrome X = Round plastic S = Square plastic		M = Knob V = Lever L = Illuminated knob A = Illuminated lever	D, I or H = 2 positions E, L, U or Z = 3 positions X = 4 positions Y or W = 5 positions	2/4 Positions 0 = Fixed 5 = From right 3 Positions 0 = Fixed 1 = From left 5 = From right 3 = From left & right	N = Black R = Red V = Green G = Yellow L = Blue	

Key selector switches

P9		S	C				
Style	Type	Cam	Spring return	Key removal	Key selection		
M = Round satin chrome X = Round plastic S = Square plastic		D, I or H = 2 positions E, L, U or Z = 3 positions X = 4 positions	2/4 Positions 0 = Fixed 5 = From right 3 Positions 0 = Fixed 1 = From left 5 = From right 3 = From left & right	See key removal position	See key selection table on E.16		

Contact blocks


























P9	B			
Style	Contacts	Terminal type	Contact type	
	0 1 = 1 NC 1 0 = 1 NO 1 1 = 1 NO + 1 NC	V = Standard screw F = Faston B = Base mounting screw T = Time delay screw	N = Normal A = Early closing R = Late opening 3 = Time delay 0,1 - 30s 8 = Time delay 10 - 180s	

Power supplies

P9	P			
Style	Type	Style	Terminal type	Voltage
	D = Full voltage T = Transfo. R = Resistor	N = Normal D = Diode L = Long life T = Test M = Multi-function (contin. blinking)	V = Standard screw F = Faston B = Base mounting screw	0 = Full voltage D = 24V J = 110-120V L = 125-127V N = 220-250V U = 380V W = 415-440V Y = 480-500V



Complete devices

Description	Contact-block	Power supply	Cap colour	Cat. no.		Ref. no.	Ref. no.		
				Metal	Plastic				
Momentary push-buttons (Head + contact block) 	Standard flush		Black	P9MPN53007	153007	P9XPN52007	152007		
			Green	P9MPN53006	153006			P9XPN52002	152002
			White	P9MPN53008	153008			P9XPN52008	152008
			Yellow	P9MPN53009	153009			P9XPN52009	152009
			Blue	P9MPN53010	153010			P9XPN52010	152010
	Red	P9MPN53011	153011	P9XPN52011	152011				
	Standard raised		Red	P9MPN53061	153061	P9XPN52061	152061		
			Black	P9MPN53012	153012	P9XPN52012	152012		
	Mushroom/Emergency push-buttons (Head + contact block) 	Mushroom head momentary		Red Ø 40	P9MEM53111	153111	P9XEM52111	152111	
		Mushroom head momentary		Black Ø 40	P9MEM53112	153112	P9XEM52112	152112	
Mush.with latch pull to release			Red Ø 40	P9MET53121	153121	P9XET52121	152121		
Mush.with latch tim to release				P9MER53161	153161	P9XER52161	152161		
Mush.with latch key to release (key 3095)				P9MEC53130	153130	P9XEC52130	152130		
Emergency with latch turn to release (EN 418)					P9XER52170	152170			
Knob selector switch (Knob head + contact block) 	2 fixed pos.			Black	P9MSM53293	153293	P9XSM52293	152293	
	2 fixed pos.			Black	P9MSM53392	153392	P9XSM52392	152392	
	3 fixed pos.			Black	P9MSM53391	153391	P9XSM52391	152321	
	3 spring return pos.			Black	P9MSM53393	153393	P9XSM52393	152393	
Knob selector switch (Knob head + contact block) 	2 fixed pos.			Key 3095	P9MSC53435	153435	P9XSC52435	152435	
	2 fixed pos.			Key 3095	P9MSC53436	153436	P9XSC52436	152436	
	3 fixed pos.			Key 3095	P9MSC53497	153497	P9XSC52497	152497	
	3 spring return pos.			Key 3095	P9MSC53498	153498	P9XSC52498	152498	

Complete devices

Illuminated push-buttons
(Head + Standard full voltage power supply+ contact blocks)



Description	Contact-block	Power supply	Cap colour	Cat. no.		Ref. no.	
				Metal	Plastic		
Momentary flush (bulb not included)	1NO		Green	P9MPL53502	153502	P9XPL52502	152502
	1 NC		Red	P9MPL53511	153511	P9XPL52511	152511
	1NC 1NC		Green	P9MPL53514	153514	P9XPL52514	152514
			Red	P9MPL53515	153515	P9XPL52515	152515
White			P9MPL53513	153513	P9XPL52513	152513	
Momentary raised (Bulb not included)	1NC		Red	P9MPL53561	153561	P9XPL52561	152561
Momentary flush - Integrated LED 24V AC/DC	1 NO		Green	P9MPL53530	153530	P9XPL52530	152530
Momentary flush - Integrated LED 24V AC/DC	1NC		Red	P9MPL53531	153531	P9XPL52531	152531

Pilot lights



Standard diffused lens- Full voltage Power supply		Green	P9MLD53610	153610	P9XLD52610	152610
		Red	P9MLD53611	153611	P9XLD52611	152611
		White	P9MLD53612	153612	P9XLD52612	152612
		Blue	P9MLD53613	153613	P9XLD52613	152613
		Yellow	P9MLD53614	153614	P9XLD52614	152614
Standard diffused lens- Integrated LED 24VAC/DC		Green	P9MLD53620	153620	P9XLD52620	152620
		Red	P9MLD53621	153621	P9XLD52621	152621
		White	P9MLD53622	153622	P9XLD52622	152622

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



Notes

E



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		P9XEM6●N			
Mushroom head ∇ 30 mm					P9SEM3●N	

Mushroom head / Emergency with latch

Standard

Push-pull to release



Push-twist to release

Push-key to release

Positive break in accordance with EN 418



Push-twist to release

Push-key to release

Mushroom head Ø40 mm	P9MET4●N1		P9XET4●N1		P9SET4●N1	
Red mushroom head Ø28 mm	P9MER3RN	184070	P9XER3RN	185070		
Red mushroom head Ø40 mm	P9MER4RN	184071	P9XER4RN	185071		
Red mushroom head Ø40 mm	P9MEC4RN▲		P9XEC4RN▲			
Red mushroom head Ø40 mm			P9XER4RA	185072	P9SER4RA	186072
Red mushroom head Ø40 mm			P9XEC4RA▲		P9SEC4RA▲	

Mushroom head / 3 positions



Ø40 mm 1-0 fixed. 2 transient	P9MET4●N2		P9XET4●N2		P9SET4●N2	
Ø40 mm 0 fixed. 1-2 transient	P9MET4●N3		P9XET4●N3		P9SET4●N3	

With keylock ⁽¹⁾

Key withdrawable in position I & II



Key withdrawable position III



Lockable position



normal	P9MPCN1K▲		P9XPCN1K▲			
depressed	P9MPCN2K▲		P9XPCN2K▲			
normal & depressed	P9MPCN3K▲		P9XPCN3K▲			
normal	P9MPCN1E▲		P9XPCN1E▲			
depressed	P9MPCN2E▲		P9XPCN2E▲			
normal & depressed	P9MPCN3E▲		P9XPCN3E▲			

(1) Keys on E.16

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

Colours		black	red	green	yellow	brown	bleu	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.10



Selector switches with knob

2 positions



Fixed

With spring return

Function (1)	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
		see bottom		see bottom		see bottom
		Metal		Plastic		Plastic
	D	P9MSMD0●		P9XSMD0●		P9SSMD0●
	I	P9MSMI0●		P9XSMI0●		P9SSMI0●
	H	P9MSMH0●		P9XSMH0●		P9SSMH0●
	D	P9MSMD5●		P9XSMD5●		P9SSMD5●
	I	P9MSMI5●		P9XSMI5●		P9SSMI5●
	H	P9MSMH1●		P9XSMH1●		P9SSMH1●

3 positions



Fixed

With spring return

	E	P9MSME0●		P9XSME0●		P9SSME0●
	L	P9MSML0●		P9XSML0●		P9SSML0●
	U	P9MSMU0●		P9XSMU0●		P9SSMU0●
	Z, B	P9MSMZ0●		P9XSMZ0●		P9SSMZ0●
	E	P9MSME1●		P9XSME1●		P9SSME1●
	L	P9MSML1●		P9XSML1●		P9SSML1●
	U	P9MSMU1●		P9XSMU1●		P9SSMU1●
	Z, B	P9MSMZ1●		P9XSMZ1●		P9SSMZ1●
	E	P9MSME5●		P9XSME5●		P9SSME5●
	L	P9MSML5●		P9XSML5●		P9SSML5●
	U	P9MSMU5●		P9XSMU5●		P9SSMU5●
	Z, B	P9MSMZ5●		P9XSMZ5●		P9SSMZ5●
	E	P9MSME3●		P9XSME3●		P9SSME3●
	L	P9MSML3●		P9XSML3●		P9SSML3●
	U	P9MSMU3●		P9XSMU3●		P9SSMU3●
	Z, B	P9MSMZ3●		P9XSMZ3●		P9SSMZ3●

4 positions

Fixed

With spring return

	X	P9MSMX0●		P9XSMX0●		P9SSMX0●
	X	P9MSMX5●		P9XSMX5●		P9SSMX5●

5 positions

Fixed

	X	P9MSMY0●		P9XSMY0●		P9SSMY0●
	W	P9MSMW0●		P9XSMW0●		P9SSMW0●

(1) Electrical diagrams, see E.24

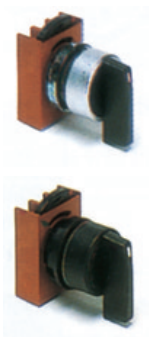
The catalogue numbers in **bold** are available from stock.

Colours		black	red	green	yellow	bleu
Caps	●	N	R	V	G	L

For reference numbers, see chapter X, pg. X.10

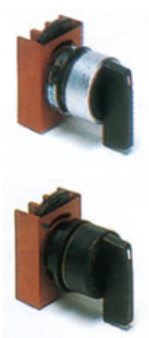
Selector switches with lever

2 positions



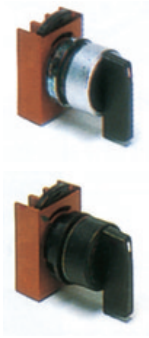
	Function (1)	Cat. no.	Ref. no.	Cat. no.	Ref. no.
			see bottom		see bottom
		Metal		Plastic	
Fixed		D	P9MSVD0		P9XSVD0
		I	P9MSVI0		P9XSVI0
		H	P9MSVH0		P9XSVH0
With spring return		D	P9MSVD5		P9XSVD5
		I	P9MSVI5		P9XSVI5
		H	P9MSVH1		P9XSVH1

3 positions



Fixed		E	P9MSVE0		P9XSVE0
		L	P9MSVL0		P9XSVL0
		U	P9MSVU0		P9XSVU0
		Z, B	P9MSVZ0		P9XSVZ0
With spring return		E	P9MSVE1		P9XSVE1
		L	P9MSVL1		P9XSVL1
		U	P9MSVU1		P9XSVU1
		Z, B	P9MSVZ1		P9XSVZ1
		E	P9MSVE5		P9XSVE5
		L	P9MSVL5		P9XSVL5
		U	P9MSVU5		P9XSVU5
		Z, B	P9MSVZ5		P9XSVZ5
		E	P9MSVE3		P9XSVE3
		L	P9MSVL3		P9XSVL3
		U	P9MSVU3		P9XSVU3
		Z, B	P9MSVZ3		P9XSVZ3

4 positions



Fixed		X	P9MSVX0		P9XSVX0
With spring return		X	P9MSVX5		P9XSVX5

5 positions

Fixed		X	P9MSVY0		P9XSVY0
		W	P9MSVW0		P9XSVW0

(1) Electrical diagrams, see E.24

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

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

For reference numbers, see chapter X, pg. X.10



Selector switches with key

2 positions



Fixed

With spring return

Function (1)	Key removal	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
			Metal		Plastic		Plastic
			see bottom		see bottom		see bottom
	D	I	P9MSCD0A ▲	P9XSCD0A ▲	P9SSCD0A ▲		
		II	P9MSCD0E ▲	P9XSCD0E ▲	P9SSCD0E ▲		
		I-II	P9MSCD0K ▲	P9XSCD0K ▲	P9SSCD0K ▲		
	I	0	P9MSCI0C ▲	P9XSCI0C ▲	P9SSCI0C ▲		
		I	P9MSCI0E ▲	P9XSCI0E ▲	P9SSCI0E ▲		
		0-I	P9MSCI0N ▲	P9XSCI0N ▲	P9SSCI0N ▲		
	H	I	P9MSCH0A ▲	P9XSCH0A ▲	P9SSCH0A ▲		
		0	P9MSCH0C ▲	P9XSCH0C ▲	P9SSCH0C ▲		
		I-0	P9MSCH0H ▲	P9XSCH0H ▲	P9SSCH0H ▲		
	D	I	P9MSCD5A ▲	P9XSCD5A ▲	P9SSCD5A ▲		
		I	P9MSCI5C ▲	P9XSCI5C ▲	P9SSCI5C ▲		
		H	P9MSCH1C ▲	P9XSCH1C ▲	P9SSCH1C ▲		

3 positions



Fixed

	E	I	P9MSCE0A ▲	P9XSCE0A ▲	P9SSCE0A ▲		
		0	P9MSCE0C ▲	P9XSCE0C ▲	P9SSCE0C ▲		
		II	P9MSCE0E ▲	P9XSCE0E ▲	P9SSCE0E ▲		
		I-0	P9MSCE0H ▲	P9XSCE0H ▲	P9SSCE0H ▲		
		I-II	P9MSCE0K ▲	P9XSCE0K ▲	P9SSCE0K ▲		
		0-II	P9MSCE0N ▲	P9XSCE0N ▲	P9SSCE0N ▲		
		I-0-II	P9MSCE0T ▲	P9XSCE0T ▲	P9SSCE0T ▲		
	L	I	P9MSCL0A ▲	P9XSCL0A ▲	P9SSCL0A ▲		
		0	P9MSCL0C ▲	P9XSCL0C ▲	P9SSCL0C ▲		
		II	P9MSCL0E ▲	P9XSCL0E ▲	P9SSCL0E ▲		
		I-0	P9MSCL0H ▲	P9XSCL0H ▲	P9SSCL0H ▲		
		I-II	P9MSCL0K ▲	P9XSCL0K ▲	P9SSCL0K ▲		
		0-II	P9MSCL0N ▲	P9XSCL0N ▲	P9SSCL0N ▲		
		I-0-II	P9MSCL0T ▲	P9XSCL0T ▲	P9SSCL0T ▲		
	U	I	P9MSCU0A ▲	P9XSCU0A ▲	P9SSCU0A ▲		
		0	P9MSCU0C ▲	P9XSCU0C ▲	P9SSCU0C ▲		
		II	P9MSCU0E ▲	P9XSCU0E ▲	P9SSCU0E ▲		
		I-0	P9MSCU0H ▲	P9XSCU0H ▲	P9SSCU0H ▲		
		I-II	P9MSCU0K ▲	P9XSCU0K ▲	P9SSCU0K ▲		
		0-II	P9MSCU0N ▲	P9XSCU0N ▲	P9SSCU0N ▲		
		I-0-II	P9MSCU0T ▲	P9XSCU0T ▲	P9SSCU0T ▲		
	Z, B	I	P9MSCZ0A ▲	P9XSCZ0A ▲	P9SSCZ0A ▲		
		0	P9MSCZ0C ▲	P9XSCZ0C ▲	P9SSCZ0C ▲		
		II	P9MSCZ0E ▲	P9XSCZ0E ▲	P9SSCZ0E ▲		
		I-0	P9MSCZ0H ▲	P9XSCZ0H ▲	P9SSCZ0H ▲		
		I-II	P9MSCZ0K ▲	P9XSCZ0K ▲	P9SSCZ0K ▲		
		0-II	P9MSCZ0N ▲	P9XSCZ0N ▲	P9SSCZ0N ▲		
		I-0-II	P9MSCZ0T ▲	P9XSCZ0T ▲	P9SSCZ0T ▲		

(1) Electrical diagrams, see E.24

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

Keys



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	bleu	orange				

For reference numbers, see chapter X, pg. X.10

Selector switches with key

3 positions

With spring return



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	
E 	0	P9MSCE1C ▲			P9XSCE1C ▲			P9SSCE1C ▲		
	II	P9MSCE1E ▲			P9XSCE1E ▲			P9SSCE1E ▲		
	0-II	P9MSCE1N ▲			P9XSCE1N ▲			P9SSCE1N ▲		
L	0	P9MSCL1C ▲			P9XSCL1C ▲			P9SSCL1C ▲		
	II	P9MSCL1E ▲			P9XSCL1E ▲			P9SSCL1E ▲		
	0-II	P9MSCL1N ▲			P9XSCL1N ▲			P9SSCL1N ▲		
U	0	P9MSCU1C ▲			P9XSCU1C ▲			P9SSCU1C ▲		
	II	P9MSCU1E ▲			P9XSCU1E ▲			P9SSCU1E ▲		
	0-II	P9MSCU1N ▲			P9XSCU1N ▲			P9SSCU1N ▲		
Z; B	0	P9MSCZ1C ▲			P9XSCZ1C ▲			P9SSCZ1C ▲		
	II	P9MSCZ1E ▲			P9XSCZ1E ▲			P9SSCZ1E ▲		
	0-II	P9MSCZ1N ▲			P9XSCZ1N ▲			P9SSCZ1N ▲		
E 	I	P9MSCE5A ▲			P9XSCE5A ▲			P9SSCE5A ▲		
	0	P9MSCE5C ▲			P9XSCE5C ▲			P9SSCE5C ▲		
	I-0	P9MSCE5H ▲			P9XSCE5H ▲			P9SSCE5H ▲		
L	I	P9MSCL5A ▲			P9XSCL5A ▲			P9SSCL5A ▲		
	0	P9MSCL5C ▲			P9XSCL5C ▲			P9SSCL5C ▲		
	I-0	P9MSCL5H ▲			P9XSCL5H ▲			P9SSCL5H ▲		
U	I	P9MSCU5A ▲			P9XSCU5A ▲			P9SSCU5A ▲		
	0	P9MSCU5C ▲			P9XSCU5C ▲			P9SSCU5C ▲		
	I-0	P9MSCU5H ▲			P9XSCU5H ▲			P9SSCU5H ▲		
Z, B	I	P9MSCZ5A ▲			P9XSCZ5A ▲			P9SSCZ5A ▲		
	0	P9MSCZ5C ▲			P9XSCZ5C ▲			P9SSCZ5C ▲		
	I-0	P9MSCZ5H ▲			P9XSCZ5H ▲			P9SSCZ5H ▲		
E L U Z, B 	0	P9MSCE3C ▲			P9XSCE3C ▲			P9SSCE3C ▲		
	0	P9MSCL3C ▲			P9XSCL3C ▲			P9SSCL3C ▲		
	0	P9MSCU3C ▲			P9XSCU3C ▲			P9SSCU3C ▲		
	0	P9MSCZ3C ▲			P9XSCZ3C ▲			P9SSCZ3C ▲		

4 positions

Fixed



With spring return

X 	I	P9MSCX0A ▲			P9XSCX0A ▲			P9SSCX0A ▲		
	II	P9MSCX0B ▲			P9XSCX0B ▲			P9SSCX0B ▲		
	III	P9MSCX0D ▲			P9XSCX0D ▲			P9SSCX0D ▲		
	IV	P9MSCX0E ▲			P9XSCX0E ▲			P9SSCX0E ▲		
	I-II	P9MSCX0F ▲			P9XSCX0F ▲			P9SSCX0F ▲		
	I-III	P9MSCX0J ▲			P9XSCX0J ▲			P9SSCX0J ▲		
	I-IV	P9MSCX0K ▲			P9XSCX0K ▲			P9SSCX0K ▲		
	II-III	P9MSCX0L ▲			P9XSCX0L ▲			P9SSCX0L ▲		
	II-IV	P9MSCX0M ▲			P9XSCX0M ▲			P9SSCX0M ▲		
	III-IV	P9MSCX0P ▲			P9XSCX0P ▲			P9SSCX0P ▲		
	I-II-III	P9MSCX0R ▲			P9XSCX0R ▲			P9SSCX0R ▲		
	I-II-IV	P9MSCX0S ▲			P9XSCX0S ▲			P9SSCX0S ▲		
	I-III-IV	P9MSCX0U ▲			P9XSCX0U ▲			P9SSCX0U ▲		
	II-III-IV	P9MSCX0V ▲			P9XSCX0V ▲			P9SSCX0V ▲		
	I-II-III-IV	P9MSCX0Z ▲			P9XSCX0Z ▲			P9SSCX0Z ▲		
	X 	I	P9MSCX5A ▲			P9XSCX5A ▲			P9SSCX5A ▲	
II		P9MSCX5B ▲			P9XSCX5B ▲			P9SSCX5B ▲		
III		P9MSCX5D ▲			P9XSCX5D ▲			P9SSCX5D ▲		
I-II		P9MSCX5F ▲			P9XSCX5F ▲			P9SSCX5F ▲		
I-III		P9MSCX5J ▲			P9XSCX5J ▲			P9SSCX5J ▲		
II-III		P9MSCX5L ▲			P9XSCX5L ▲			P9SSCX5L ▲		
I-II-III		P9MSCX5R ▲			P9XSCX5R ▲			P9SSCX5R ▲		

(1) Electrical diagrams, see E.24

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

Keys



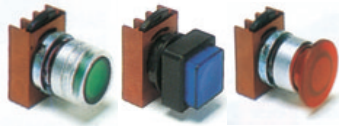
Standard version number	▲	95									
Standard version with specific number	▲	01	02	03	04	05	10	16	19	55 (Ronis)	
FIAT version number	▲	33	34	37	38	40					
Colour		yellow	black	red	bleu	orange					

For reference numbers, see chapter X, pg. X.10



Series P9

Illuminated push-buttons



Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	Cat. no.	Ref. no. see bottom	
						Metal

Standard / Momentary

With diffused lens:					
Flush	P9MPL●GD	P9XPL●GD	P9SPL●GD		
Raised	P9MPL●SD	P9XPL●SD	P9SPL●SD		
Recessed	P9MPL●ED	P9XPL●ED	P9SPL●ED		

Mushroom head / Momentary

Mushroom head Ø40 mm	P9MEM4●L	P9MEM4●L			
Mushroom head 30 mm			P9SEM3●L		

Mushroom head / With latch

Push-pull to release Mushroom head Ø40 mm	P9MET4●L1	P9XET4●L1	P9SET4●L1		
--	------------------	------------------	------------------	--	--

Mushroom head / 3 positions

With mushroom Ø40 mm					
	1-0 fixed, 2 transient	P9MET4●L2	P9XET4●L2	P9SET4●L2	
	0 transient, 1-2 fixed	P9MET4●L3	P9XET4●L3	P9SET4●L3	

Illuminated selector switches with knob

2 positions



Fixed

Function (1)					
	D	P9MSLD0●	P9XSLD0●	P9SSLD0●	

3 positions



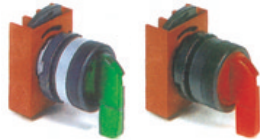
With spring return

Fixed

	Z, B	P9MSLZ0●	P9XSLZ0●	P9SSLZ0●	
	Z, B	P9MSLZ1●	P9XSLZ1●	P9SSLZ1●	
	Z, B	P9MSLZ5●	P9XSLZ5●	P9SSLZ5●	
	Z, B	P9MSLZ3●	P9XSLZ3●	P9SSLZ3●	

Illuminated selector switches with lever

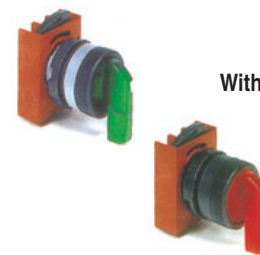
2 positions



Fixed

Function (1)					
	D	P9MSAD0●	P9XSAD0●		

3 positions



With spring return

Fixed

	Z, B	P9MSAZ0●	P9XSAZ0●		
	Z, B	P9MSAZ1●	P9XSAZ1●		
	Z, B	P9MSAZ5●	P9XSAZ5●		
	Z, B	P9MSAZ3●	P9XSAZ3●		

(1) Electrical diagrams, see E.24








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

Colours		red	green	yellow	orange	bleu	white	clear
Lens	●	R	V	G	A	L	B	I
Mushroom heads	●	R	V	G	A	L	B	I
Knob/lever	●	R	V	G	A	L	B	I





For reference numbers, see chapter X, pg. X.10









Selector push-buttons (black coloured)

	Function (1)	Cat. no.	Ref. no.	Cat. no.		Ref. no.		
				Metal	Plastic	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 	D	P9MCD	184695	P9XCD	185695	P9SCD	186695
3 positions								
	Fixed position 	B	P9MCB	184696	P9XCB	185696	P9SCB	186696
		B	P9MCC	184697	P9XCC	185697	P9SCC	186697
	Transient to zero from one position							

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	P9XMN2A	185702		
		1 fixed - 3 transient positions	P9MMN2B	184703	P9XMN2B	185703		
	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.24

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

Emergency lever



	Cat. no.	Ref. no.	Cat. no.	Ref. no.	Cat. no.	Ref. no.
	Metal		Plastic		Plastic	
Red lever	P9MWR	184770	P9XWR	185770		

Reset push-button



White symbol on blue background	P9MRG	184771	P9XRG	185771	P9SRG	186771
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Potentiometer operator (potentiometer not included)



Black knob	P9MZ	184772	P9XZ	185772	P9SZ	186772
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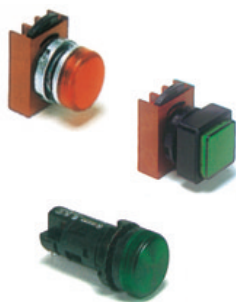
Buzzer



Black coloured Bitonal sound Full voltage AC/DC Frequency: 2kHz Sound intensity: 80dB at 1 m Consumption: 3 to 9 mA 24 V 110-240 V						
			P9XBD	185773	P9SBD	186773
			P9XBM	185774	P9SBM	186774

E

Pilot lights









Standard Diffused lens (for filament bulb) Refracted lens (for neon bulb) Glass lens	P9ML●D	see bottom	P9XL●D	see bottom	P9SL●D	see bottom
	P9ML●R	see bottom	P9XL●R	see bottom		
	P9ML●V	see bottom	P9XL●V	see bottom		
Unibloc (complete pilot light) Full voltage AC/DC BA9S max 382 V - 2 W not included Diffused lens Refracted lens			P9XU●DD0	see bottom		
			P9XUL●RD0	see bottom		
With resistor 220 V BA9S 110 V - 2 W included Diffused lens Refracted lens			P9XU●DRN	see bottom		
			P9XU●RRN	see bottom		

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

Colours		red	green	yellow	orange	bleu	white	clear
Lens	●	R	V	G	A	L	B	I

For reference numbers, see chapter X, pg. X.10

Double function push-buttons ⁽¹⁾

	Colours (2)	Plastic caps without symbols		Plastic caps with symbols		
		Cat. no.	Ref. no.	Cat. no.	Ref. no.	
						
IP40 protection (acc. to IEC 529)						
 <p>With white lens assembled for indicator light. Black insert for not illuminated function included in the packaging.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>A flush</p> <p>lens</p> <p>B flush</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>A flush</p> <p>lens</p> <p>B raised</p> </div> </div>	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	186833	
	Clear cap (silicon rubber)					
	 <p>IP66 protection (acc. to IEC 529)</p>	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 replaceable.

Contact blocks

Logic Reed

A new range of LOGIC REED contact blocks with faston terminals for use with power lower than 12V - 5mA.

		Cat. no.	Ref. no.
Contact type	1NO or 1NC	P9B01FH	187014
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		P9PDHF	187056

With screw



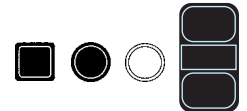
min. 1 of 22 AWG (0.32 mm²)
max. 2 of 12 AWG (3.3 mm²)



Contact type

Cat. no.

Ref. no.



		Contact type	Cat. no.	Ref. no.
		NC+NO	P9B11VN	187000
		NC+NC	P9B02VN	187008
		NO+NO	P9B20VN	187009
		NC	P9B01VN	187001
		standard NO	P9B10VN	187002
		low power NO	P9B10FH	
		NC late opening	P9B01VR	187003
		NO early closing	P9B10VA	187004
		NC+NO delayed	P9B11T3	187010
			P9B11T8	187011

Faston



1 x (6.35 x 0.8 mm)
2 x (2.8 x 0.8 mm)



		NC	P9B01FN	187012
		NO	P9B10FN	187013

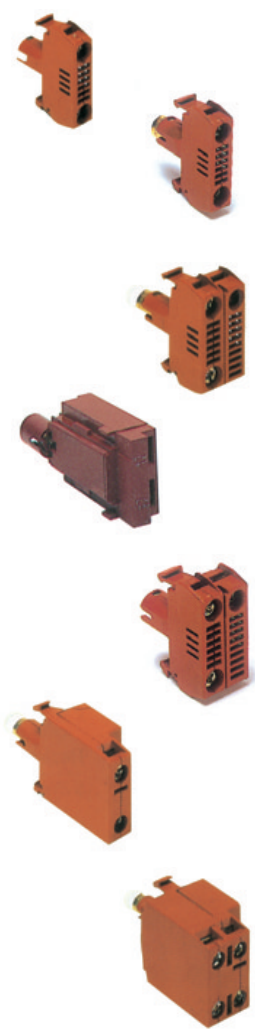
The catalogue numbers in **bold** are available from stock.

Power supplies

With screw



min. 1 of 22 AWG (0.32 mm²)
max. 2 of 12 AWG (3.3 mm²)



Position on flange 2 3 1	Contact type	Cat. no.	Ref. no.
	Full voltage \cong IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDNV0	187020
	Long life 110/120V \cong BA9S 130V-2W included	P9PRLVJ	187021
	Logic Reed idem for low power flange for P9PDHF (see E.00)	P9PDHF P9ACFSM	187056 187846
	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
	Full voltage IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDNF0	187055
	Standard light		
	24V AC/DC	P9PLNVD •	see bottom
	120V AC	P9PLNVJ •	see bottom
	230V AC	P9PLNVN •	see bottom
	Flashing light		
	24V AC/DC	P9PLFVD •	see bottom
	120V AC	P9PLFVJ •	see bottom
	230V AC	P9PLFVJ •	see bottom

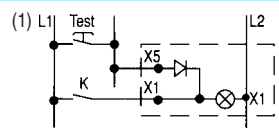
Faston



1 x (6.35 x 0.8 mm)
2 x (2.8 x 0.8 mm)



Integrated LED



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

LED colour*	orange A	white B	yellow G	blue L	red R	green V
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The catalogue numbers in **bold** are available from stock.

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

For reference numbers, see chapter X, pg. X.10



Diagrams

Selector switches

Positions	Function	Contacts	Position on flange 2 3 1
	D	B10 13-14	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	D	B10 13-14 B01 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	D	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	I	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	H	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	B	B10 13-14 B10 23-24	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	E	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	L	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	U	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Z	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Z	B10 13-14 B01 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	X	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Y	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	W	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Selector push-buttons

Positions	Function	Contacts	Normal	Depressed	Position on flange 2 3 1
	201	B11 13-14 11-12 23-24 B11 21-22			<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	231	B11 13-14 11-12 23-24 B11 21-22			<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	235	B11 13-14 11-12 23-24 B11 21-22			<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	301	B11 13-14 11-12 23-24 B11 21-22			<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	323	B11 13-14 11-12 23-24 B11 21-22			<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

✱ Can not be depressed

Joysticks

Positions	Contacts	Position on flange 2 3 1
	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	B11 13-14 11-12 23-24 B11 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Toggle switches

Positions	Function	Contacts	Position on flange 2 3 1
	D	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	B	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Mushroom head push-buttons 3 pos.

Function	Contacts	Position on flange 2 3 1
2	B01R 11-12 B01 21-22	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
3	B11 13-14 11-12	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Push-buttons



Standard / Momentary



Mushroom head / Momentary

Mushroom head / Emergency with latch
in accordance with EN 418 standards



Description	Cat. no.	Ref. no.	Cat. no.	Ref. no.
	Plastic		Plastic	
With flush cap	P9YPN●G	see bottom	P9ZPN●G	see bottom
With raised cap	P9YPN●S	see bottom	P9ZPN●S	see bottom
Red mushroom head Ø40 mm	P9YEM4RN	185920		
Red mushroom head ∇ 30 mm			P9ZEM3RN	186920
Push-twist to release Red mushroom head Ø40 mm	P9YER4RA	185921	P9ZER4RA	186921

Illuminated push-buttons



Standard / Momentary



Description	Cat. no.	Ref. no.	Cat. no.	Ref. no.
	Plastic		Plastic	
Diffused lens				
Flush	P9YPL●GD	see bottom	P9ZPL●GD	see bottom
Raised	P9YPL●SD	see bottom	P9ZPL●SD	see bottom

Pilot lights



Description	Cat. no.	Ref. no.	Cat. no.	Ref. no.
	Plastic		Plastic	
Diffused lens	P9YL●D	see bottom	P9ZL●D	see bottom

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

Colours		black	red	green	yellow	orange	brown	bleu	white	grey	clear
Caps	●	N	R	V	G	-	M	L	B	H	-
Diffused lensen	●	-	R	V	G	A	-	L	B	-	I







For reference numbers,
see chapter X, pg. X.10










Series P9

Series P9 - Base mounting

Selector switches with knob (black coloured)

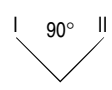
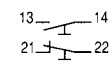

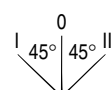
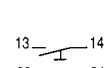

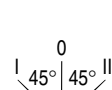


2 positions		Function (1)	Cat. no.	Ref. no.	Cat. no.	Ref. no.
			Plastic		Plastic	
		 D				
			P9YSMD0N	185960	P9ZSMD0N	186960
			 Z, B	P9YSMZ0N	185962	P9ZSMZ0N
	With spring return	 Z, B	P9YSMZ3N	185965	P9ZSMZ3N	186965

Selector switches with standard key

2 positions		Function (1)	Key removal	Cat. no.	Ref. no.	Cat. no.	Ref. no.
				Plastic		Plastic	
		 D	I I-II				
	Fixed			P9YSCD0A95	185970	P9ZSCD0A95	186970
				P9YSCD0K95	185972	P9ZSCD0K95	186972
3 positions							
	Fixed	 Z, B	0 I-0-II	P9YSCZ0C95	185975	P9ZSCZ0C95	186975
				P9YSCZ0T95	185980	P9ZSCZ0T95	186980
	With spring return	 Z, B	0	P9YSCZ3C95	185987	P9ZSCZ3C95	186987

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


Diagrams

Positions	Function	Contact	Position on flange
	D	P9 B10... P9 B01... 	
	B	P9 B10... P9 B10... 	
	Z	P9 B10... P9 B01... 	








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.
		NC	P9B01BN	187017
		NCO	P9B10BN	187018
				
				


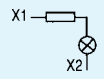
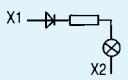

Power supplies

With screw



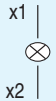
min. 1 of 22 AWG (0.32 mm²)
max. 2 of 12 AWG (3.3 mm²)



Position on flange 2 3 1	Bulb power supply	Cat. no.	Ref. no.
	Full voltage ≅ IEC: BA9S max 380V-2W not included UL-CSA: BA9S max 250V-2W not included	P9PDNV0	187020
	Long life 110/120V ≅ BA9S 130V-2W included	P9PRLBJ	187071
	Resistor + Diode 220/240 V ~ BA9S 130V-2W included	P9PRDBN	187072
	Additional resistor 110/120V ≅ for BA9S 60V-1.2W 220/240V ≅ for BA9S 130V-2W	P9PRNB P9PRNB	187073 187074

Integrated LED



Position on flange 2 3 1	Standard light	Cat. no.	Ref. no.
	24V AC/DC	P9PLNBD	
	120V AC	P9PLNB	
	230V AC	P9PLNB	

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

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



Push-button stations in thermoplastic (Light grey coloured RAL 7035)

For panel and base mounting

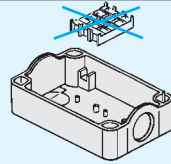
- IP66 according to IEC529, EN 60529
- Engineered thermoplastic covers, bases and screws
- Self extinguishing Class V0, according to UL 94
- Rust resistant (4X according to UL 508)
- Total insulation with all thermoplastic operators
- Contact blocks and power supplies for both base and front mounting

Empty versions

Cover with holes
Knockouts conduit entry



Number of holes	Cat. no.	Ref. no.
1 (yellow cover)	P9EPEG1	189000
1	P9EPE01	189001
2	P9EPE02	189002
3	P9EPE03	189003
4	P9EPE04	189004
6	P9EPE06	189005



For panel mounting

Accessories

Write-on plates

Bilaminated, self adhesive, 20 x 20 mm
Black background engravable for white texts

Description	Symbols	Cat. no.	Ref. no.
Without text		P9AELN	189030
Texts in English (1)			
START		P9AELN202	189031
STOP		P9AELN201	189032
FORWARD		P9AELN214	189033
REVERSE		P9AELN215	189034
CLOSE		P9AELN205	189035
OPEN		P9AELN206	189036
UP		P9AELN204	189037
DOWN		P9AELN203	189038
LEFT		P9AELN222	189152
RIGHT		P9AELN224	189154
	→	P9AELN006	189041
	I	P9AELN028	189042
	0	P9AELN029	189043
	II	P9AELN035	189044
	III	P9AELN038	189045
	0-I	P9AELN039	189046
	I-0-II	P9AELN042	189047

Earth terminal clamp

		P9AEMT	189029
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Equipped versions

One unit



Operators	Colour	Diagram	Name-plate	Cat. no.	Ref. no.
Flush push-button	green		I	P9EPA01Y02	189010
Flush push-button	white		I	P9EPA01Y03	189011
Flush push-button	red		0	P9EPA01Y04	189012
Flush push-button	black		0	P9EPA01Y05	189013
Emergency push-button with latch according to EN418 (on yellow cover)	red		0	P9EPAG1Y01	189015
Key selector switch with 2 pcs. (Key code 95)	-		0-I	P9EPA01Y06	189014

(1) Other languages on request

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

Push-button stations in thermoplastic (continued)

Equipped versions

Two units



Operators	Colour	Diagram	Name-plate	Cat. no.	Ref. no.
Flush push-buttons	green		I	P9EPA02Y01	189016
	red		0		
Flush push-buttons	white		I	P9EPA02Y02	189017
	black		0		

Tree units



Full voltage pilot light max 380V-2W not included	BA9S	white		blank	P9EPA03Y01	189018
Flush push-buttons		green		I		
		red		0		
Full voltage pilot light max 380V-2W not included	BA9S	white		blank	P9EPA03Y02	189019
Flush push-buttons		white		I		
		black		0		
Resistor + diode pilot light 220/240V AC BA9S 130V-2W included		white		blank	P9EPA03Y03	189020
Flush push-buttons		white		I		
		black		0		
Resistor + diode pilot light 220/240V A BA9S 130V-2W included		white		blank	P9EPA03Y04	189021
Flush push-buttons		white		I		
		black		0		
Flush push-buttons		black		↑	P9EPA03Y05	189022
		red		0		
		black		↓		



Six units

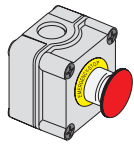


Flush push-buttons		green		I	P9EPA06Y01	189023
		red		0		
		black		↑		
		black		↓		
		black		←		
		black		→		

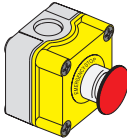
The catalogue numbers in **bold** are available from stock.



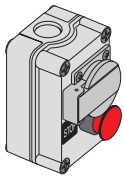
Equipped boxes



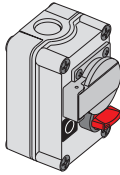
One operator



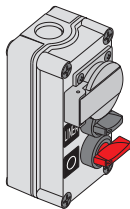
Especial enclosures to use for shaft lifts (other versions, please contact us)				
Composition	Individual operators	Cat. no.	Ref. no.	Pack
Thermoplastic box. 1 element	P9EPE01	P9EPC01X00	215432	1
Emergency push button mushroom head Ø40, push-pull to release	P9XET4RN1			
1NC contact block	P9B01VN			
1NO contact block	P9B10VN			
Nameplate with inscription "EMERGENCY-STOP"	080XTGR02			
PG16 packing gland				
Thermoplastic box. Yellow cover. 1 element	P9EPEG1	P9EPL02X01	215433	1
Emergency push-button mushroom head Ø40, push-twist to release	P9XER4RN			
1NC contact block	P9B01VN			
Nameplate with inscription "EMERGENCY-STOP"	080XTGR02			



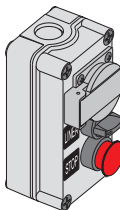
Two operators



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				

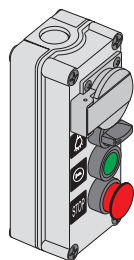


Three operators



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	189138	1
Selector switch, 2 positions, with black knob	P9XSMD0N			
1NC contact block	P9B01VN			
1NO contact block	P8B10VN			
Nameplate with inscription "STOP"	P9AELN523			
Emergency push-button mushroom head Ø28, push-twist to release	P9XER3RN			
1NC contact block	P9B01VN			
Nameplate with inscription "LINEA"	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				

E



Four operators

Equipped boxes (continued)				
Especial 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			
	P9B01VN			
1NC contact block	P9AELN201			
Nameplate with inscription "STOP"				
16A Schuko socket-outlet with cover				

Series P9

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

For panel mounting

Cover with holes with conduit entry



Number of holes	Type	Cat. no.	Ref. no.
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

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

Cover without holes with conduit entry



1	1	080SP1SFC	170835
1	1M (1)	080SP1MSFC	170838
2	2	080SP2SFC	170841
2	2M (1)	080SP2MSFC	170844
3	3	080SP3SFC	170847
4	4	080SP2SFC	170841
4	4M (1)	080SP2MSFC	170844
6	6	080SP3SFC	170847
8	8	080SP8SFC	170853
12	12	080SP12SFC	170856
18	18	080SP18SFC	170859
24	24	080SP18SFC	170859
35	35	080SP35SFC	170863

Cover without holes without conduit entry

1	1	080SP1SF	170837
1	1M (1)	080SP1MSF	170840
2	2	080SP2SF	170843
2	2M (1)	080SP2MSF	170846
3	3	080SP3SF	170849
4	4	080SP2SF	170843
4	4M (1)	080SP2MSF	170846
6	6	080SP3SF	170849
8	8	080SP8SF	170855
12	12	080SP12SF	170858
18	18	080SP18SF	170861
24	24	080SP18SF	170861
35	35	080SP35SF	170865

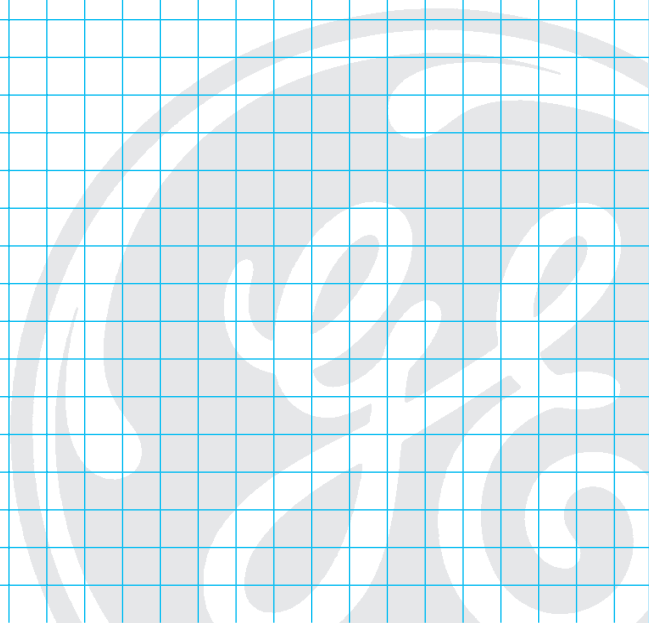
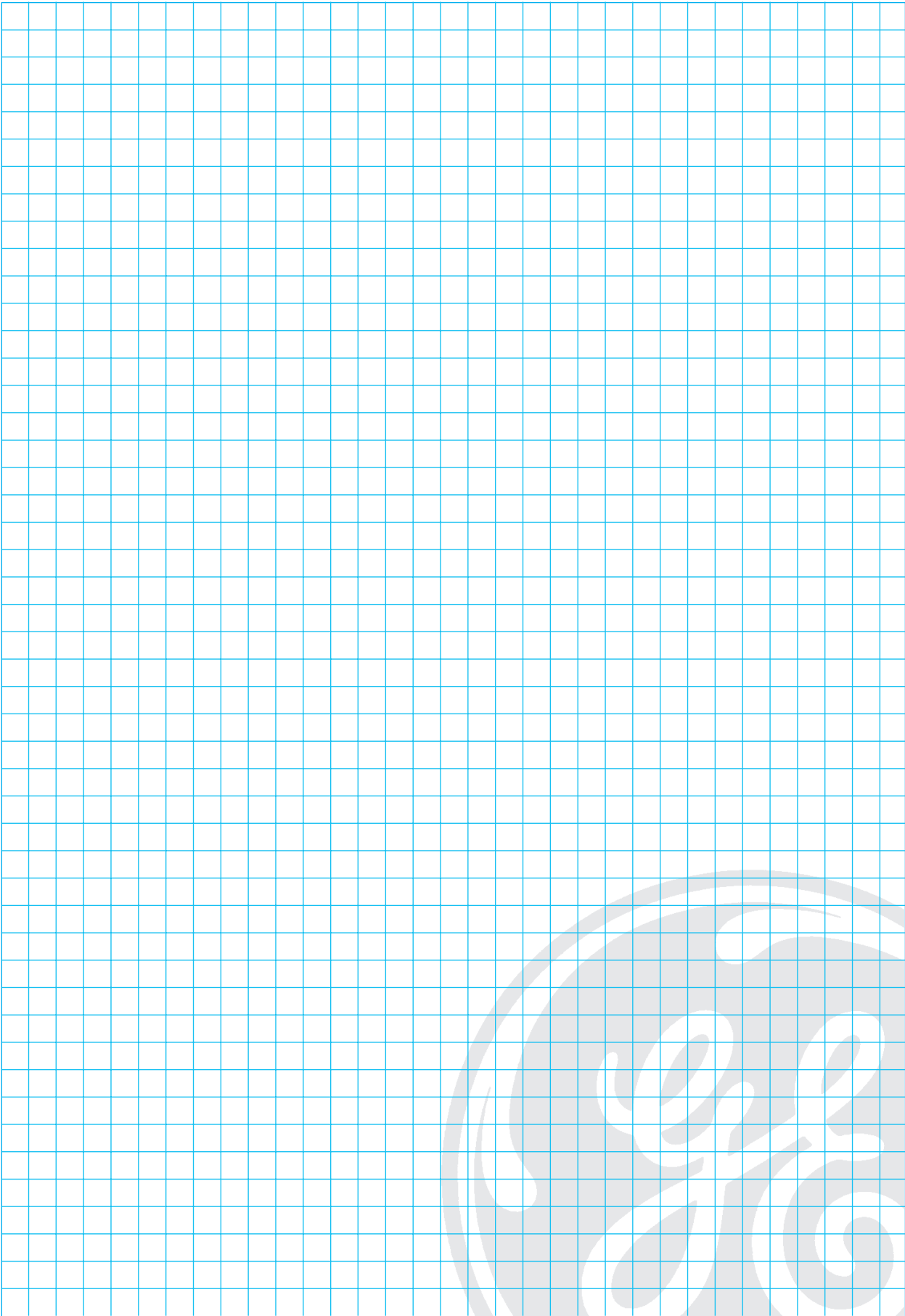
(1) With deep socle

Accessories



























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

Overall dimensions, see E.47

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	P9ARBGN 029	187150	P9ARBSN 029	187250	P9ASBGN 029	187550	P9ASBSN 029	187650
	Red	P9ARBGR 029	187110	P9ARBSR 029	187210	P9ASBGR 029	187510	P9ASBSR 029	187610
Start 	Black	P9ARBGN 028	187111	P9ARBSN 028	187211	P9ASBGN 028	187511	P9ASBSN 028	187611
	Green	P9ARBGV 028	187112	P9ARBSV 028	187212	P9ASBGV 028	187512	P9ASBSV 028	187612
	White	P9ARBGW 028	187151	P9ARBSW 028	187251	P9ASBGW 028	187551	P9ASBSW 028	187651
Second function 	Black	P9ARBGN 035	187113	P9ARBSN 035	187213	P9ASBGN 035	187513	P9ASBSN 035	187613
	Green	P9ARBGV 035	187114	P9ARBSV 035	187214	P9ASBGV 035	187514	P9ASBSV 035	187614
Third function 	Black	P9ARBGN 038	187115	P9ARBSN 038	187215	P9ASBGN 038	187515	P9ASBSN 038	187615
	Green	P9ARBGV 038	187116	P9ARBSV 038	187216	P9ASBGV 038	187516	P9ASBSV 038	187616
Continuous rectilinear motion 	Black	P9ARBGN 006	187117	P9ARBSN 006	187217	P9ASBGN 006	187517	P9ASBSN 006	187617
	Green	P9ARBGV 006	187118	P9ARBSV 006	187218	P9ASBGV 006	187518	P9ASBSV 006	187618
	White	P9ARBGW 006	187152	P9ARBSW 006	187252	P9ASBGW 006	187552	P9ASBSW 006	187652
Continuous rotation to the right 	Black	P9ARBGN 012	187119	P9ARBSN 012	187219	P9ASBGN 012	187519	P9ASBSN 012	187619
	Green	P9ARBGV 012	187120	P9ARBSV 012	187220	P9ASBGV 012	187520	P9ASBSV 012	187620
Continuous rotation to the left 	Black	P9ARBGN 013	187121	P9ARBSN 013	187221	P9ASBGN 013	187521	P9ASBSN 013	187621
	Green	P9ARBGV 013	187122	P9ARBSV 013	187222	P9ASBGV 013	187522	P9ASBSV 013	187622
Feed 	Black	P9ARBGN 014	187123	P9ARBSN 014	187223	P9ASBGN 014	187523	P9ASBSN 014	187623
	Green	P9ARBGV 014	187124	P9ARBSV 014	187224	P9ASBGV 014	187524	P9ASBSV 014	187624
Increase 	Black	P9ARBGN 017	187125	P9ARBSN 017	187225	P9ASBGN 017	187525	P9ASBSN 017	187625
	Green	P9ARBGV 017	187126	P9ARBSV 017	187226	P9ASBGV 017	187526	P9ASBSV 017	187626
Decrease 	Black	P9ARBGN 018	187127	P9ARBSN 018	187227	P9ASBGN 018	187527	P9ASBSN 018	187627
	Green	P9ARBGV 018	187128	P9ARBSV 018	187228	P9ASBGV 018	187528	P9ASBSV 018	187628
Auto cycle 	Black	P9ARBGN 026	187129	P9ARBSN 026	187229	P9ASBGN 026	187529	P9ASBSN 026	187629
	Green	P9ARBGV 026	187130	P9ARBSV 026	187230	P9ASBGV 026	187530	P9ASBSV 026	187630
Manual 	Black	P9ARBGN 027	187131	P9ARBSN 027	187231	P9ASBGN 027	187531	P9ASBSN 027	187631
	Green	P9ARBGV 027	187132	P9ARBSV 027	187232	P9ASBGV 027	187532	P9ASBSV 027	187632
Locking 	Black	P9ARBGN 031	187133	P9ARBSN 031	187233	P9ASBGN 031	187533	P9ASBSN 031	187633
	Green	P9ARBGV 031	187134	P9ARBSV 031	187234	P9ASBGV 031	187534	P9ASBSV 031	187634
Releasing 	Black	P9ARBGN 032	187135	P9ARBSN 032	187235	P9ASBGN 032	187535	P9ASBSN 032	187635
	Green	P9ARBGV 032	187136	P9ARBSV 032	187236	P9ASBGV 032	187536	P9ASBSV 032	187636
Coolant 	Black	P9ARBGN 001	187137	P9ARBSN 001	187237	P9ASBGN 001	187537	P9ASBSN 001	187637
	Green	P9ARBGV 001	187138	P9ARBSV 001	187238	P9ASBGV 001	187538	P9ASBSV 001	187638
Light 	Black	P9ARBGN 002	187139	P9ARBSN 002	187239	P9ASBGN 002	187539	P9ASBSN 002	187639
	Green	P9ARBGV 002	187140	P9ARBSV 002	187240	P9ASBGV 002	187540	P9ASBSV 002	187640
Lubrication 	Black	P9ARBGN 005	187141	P9ARBSN 005	187241	P9ASBGN 005	187541	P9ASBSN 005	187641
	Green	P9ARBGV 005	187142	P9ARBSV 005	187242	P9ASBGV 005	187542	P9ASBSV 005	187642
Reset 	Blue	P9ARBGL 037	187143			P9ASBGL 037	187543	P9ASBSL 037	187643
Stop/Reset 	Black	P9ARBGN 036	187153			P9ASBGN 036	187553		
	Red	P9ARBGR 036	187144			P9ASBGR 036	187544		
Test 	Black	P9ARBGN 030	187145	P9ARBSN 030	187245	P9ASBGN 030	187545	P9ASBSN 030	187645
	Green	P9ARBGV 030	187146	P9ARBSV 030	187246	P9ASBGV 030	187546	P9ASBSV 030	187646
Stop 	Red	P9ARBGR 201	187147	P9ARBSR 201	187247	P9ASBGR 201	187547	P9ASBSR 201	187647
Start 	Black	P9ARBGN 202	187148	P9ARBSN 202	187248	P9ASBGN 202	187548	P9ASBSN 202	187648
	Green	P9ARBGV 202	187149	P9ARBSV 202	187249	P9ASBGV 202	187549	P9ASBSV 202	187649
	White	P9ARBGW 202	188909	P9ARBSW 202	188978	P9ASBGW 202	188959	P9ASBSW 202	188928

(1) Other symbols on request

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

Colours	black	red	green	yellow	brown	bleu	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
Second function		P9ARDLS035	187303	P9ARDPL035	187353	080QDF035	187703
Third function		P9ARDLS038	187304	P9ARDPL038	187354	080QDF038	187704
Continuous rectilinear motion		P9ARDLS006	187305	P9ARDPL006	187355	080QDF006	187705
Continuous rotation to the right		P9ARDLS012	187306	P9ARDPL012	187356	080QDF012	187706
Continuous rotation to the left		P9ARDLS013	187307	P9ARDPL013	187357	080QDF013	187707
Feed		P9ARDLS014	187308	P9ARDPL014	187358	080QDF014	187708
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	187712
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
Lubrication		P9ARDLS005	187317	P9ARDPL005	187367	080QDF005	187717
Test		P9ARDLS030	187318	P9ARDPL030	187368	080QDF030	187718
Stop		P9ARDLS201	187319	P9ARDPL201	187369	080QDF201	187719
Start		P9ARDLS202	187320	P9ARDPL202	187370	080QDF202	187720

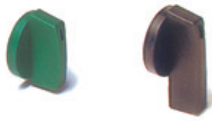
(1) Other symbols on request

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



Mushroom heads

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



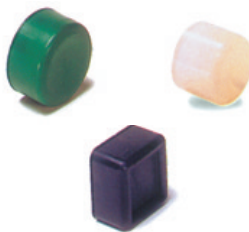
Knobs and levers

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



Lenses

Description		Cat. no.		Ref. no.	
		Plastic		see bottom	
		Plastic		see bottom	
Pilot lights	diffused version	P9ARGLD●		P9ASGLD●	
	refracted version	P9ARGLR●			
	glass version	P9ARGLV●			
Illuminated push-buttons	diffused version	P9ARGPD●		P9ASGPD●	
Illuminated mushroom head push-buttons	momentary Ø 40 mm	P9ARGP4●			
	☑ 30 mm			P9ASGP3●	
	push-pull Ø40 mm	P9ACGP4●		P9ACGP4●	
Illuminated selector switches	knob	P9ACGSL●		P9ACGSL●	
	lever	P9ARGSA●			



Rubber protective caps (IP66)

Description		Cat. no.		Ref. no.	
		Plastic		see bottom	
		Plastic		see bottom	
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

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

Colours	black	red	green	yellow	orange	bleu	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.10

Common accessories					
	Description	Cat. no.	Ref. no.	Cat. no.	Ref. no.
		Plastic		Plastic	
Plugs					
	Round	P9ARHPR	187491		
	Square 30 x 30 mm			P9ASHP3	187792
	Rectangular 30 x 50 mm			P9ASHP5	187795
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	on request	P9ACAFV	on request
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	188843		
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	

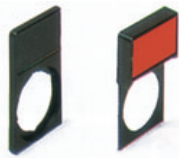
Bulbs BA9s



Description			Cat. no.		Ref. no.	
			Plastic			
Filament type	Vn	Wn				
	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		
		(DC) 230	BA9S230L●	see bottom		

Colours	red	green	yellow	bleu	white
●	R	V	G	L	B

Insert holders



Description		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		

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

For reference numbers, see chapter X, pg. X.10

Rectangular inserts

For insert holders 30 x 50 mm

Neutral							
Description	Cat. no.	Ref. no.	Description	Cat. no.	Ref. no.		
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
	FORWARD	P9ACPBS214	188214		AVANT	P9ACPBS303	188303
	REVERSE	P9ACPBS215	188215		ARRIERE	P9ACPBS302	188302
	CLOSE	P9ACPBS205	188205		FERMER	P9ACPBS309	188309
	OPEN	P9ACPBS206	188206		OUVRIER	P9ACPBS316	188316
	UP	P9ACPBS204	188204		MONTEE	P9ACPBS317	188317
	DOWN	P9ACPBS203	188203		DESCENTE	P9ACPBS304	188304
	LEFT	P9ACPBS222	188222		GAUCHE	P9ACPBS306	188306
	RIGHT	P9ACPBS224	188224		DROITE	P9ACPBS305	188305
	FAST	P9ACPBS208			VITE	P9ACPBS324	188324
	SLOW	P9ACPBS207	188207		LENT	P9ACPBS307	188307
	OPEN-CLOSE	P9ACPBS234	188234		OUIVERT-FERME	P9ACPBS335	188335
	HAND-AUTO	P9ACPBS243	188243		MAIN-AUTO	P9ACPBS336	188336
	STOP-START	P9ACPBS232	188232		ARRET-MARCHE	P9ACPBS328	188328
	FORWARD-REVERSE	P9ACPBS231	188231		AVANT-ARRIERE	P9ACPBS332	188332
	OFF-ON	P9ACPBS233	188233		HORS-EN	P9ACPBS331	188331
	AUTO-OFF-HAND	P9ACPBS258	188258		AUTO-0-MAIN	P9ACPBS334	188334
	FORWARD-0-REVERSE	P9ACPBS239	188239		AVANT-0-ARRIERE	P9ACPBS333	188333
	0-1	P9ACPBS039	188030		0-1	P9ACPBS039	188030

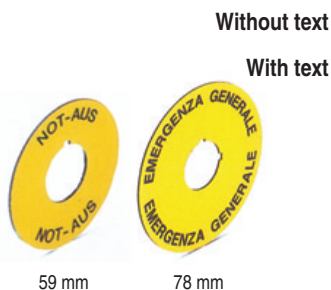
START

MARCHE

For insert holders 45 x 50 mm

Neutral							
Description	Cat. no.	Ref. no.	Description	Cat. no.	Ref. no.		
black/red background, white text	P9ARPB	188002					
white background, black text	P9ARPW						
transparent	P9ARPT	188019					

Round plates for emergency



Without text

With text

59 mm

78 mm

Diameter 59 mm				Diameter 78 mm			
Description	Cat. no.	Ref. no.	Description	Cat. no.	Ref. no.		
yellow background	080XTGR		yellow background	080XTG8	179515		
yellow background	EMERGENZA	080XTGR01	179525	yellow background	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			EMERGENZA GENERALE	080XTG807	179540
	PARAGEM EMERGENCIA	080XTGR08			PARAGEM EMERGENCIA	080XTG808	

Neutral plate



Snap-on system

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

Demo-case



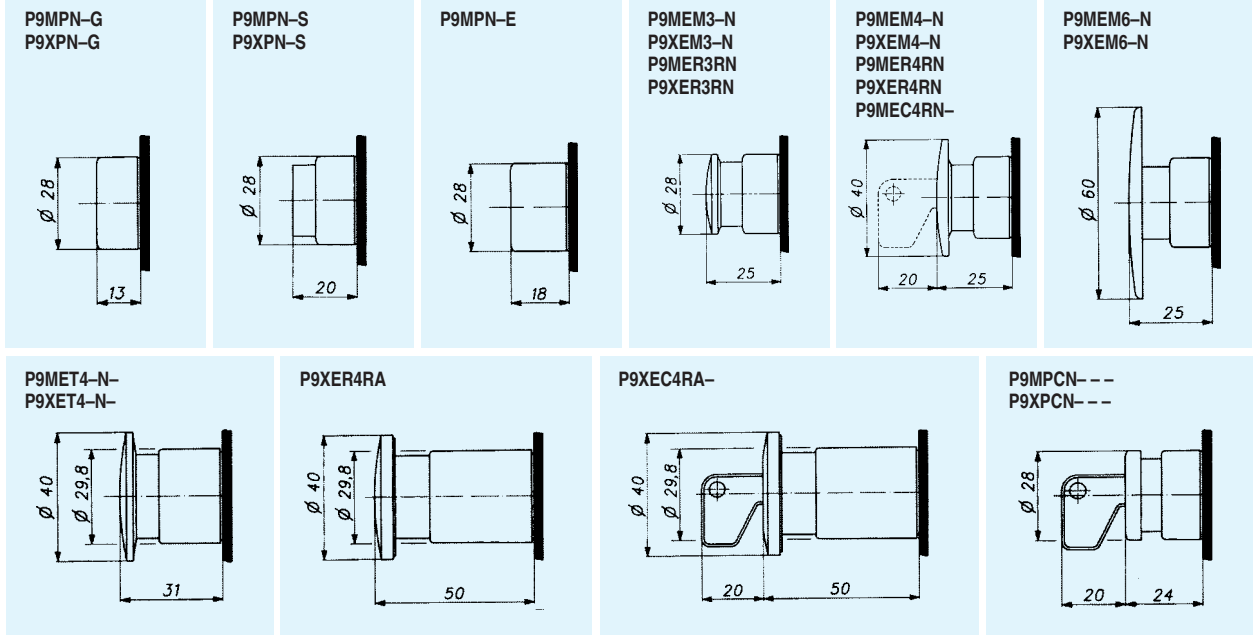
Description	Cat. no.	Ref. no.		
For identification of contact blocks and power supplies	P9ACKITI	188099		

(1) Other languages on request.

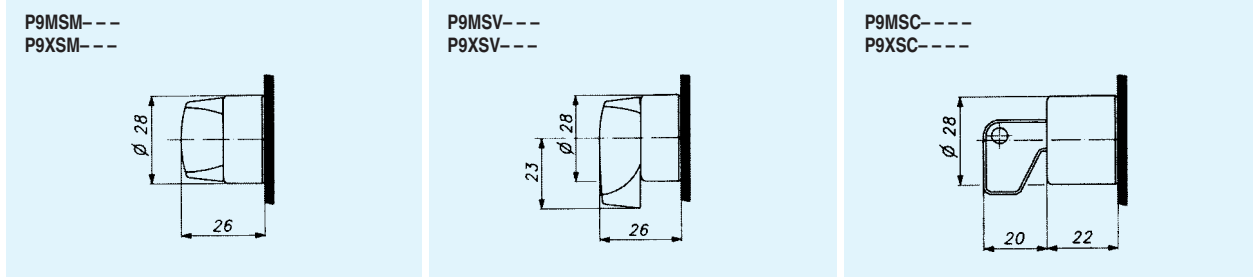
The catalogue numbers in **bold** are available from stock.

Dimensional drawings

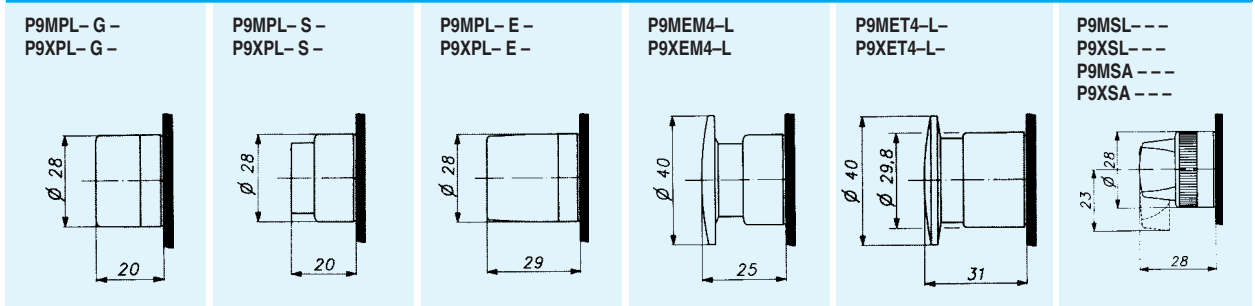
Round operators - Push-buttons



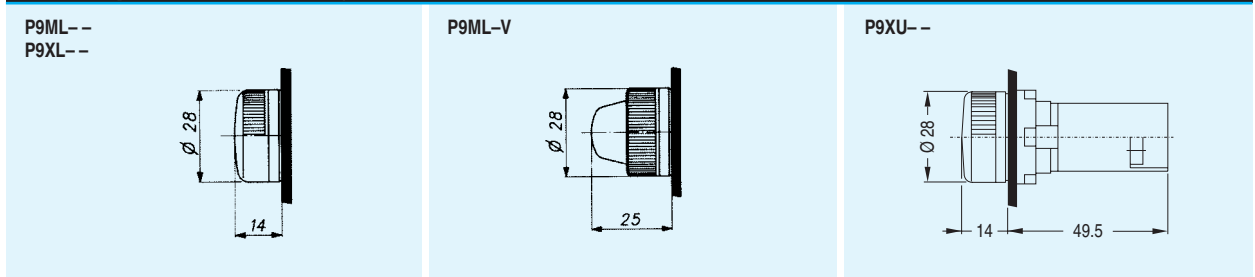
Round operators - Selector switches



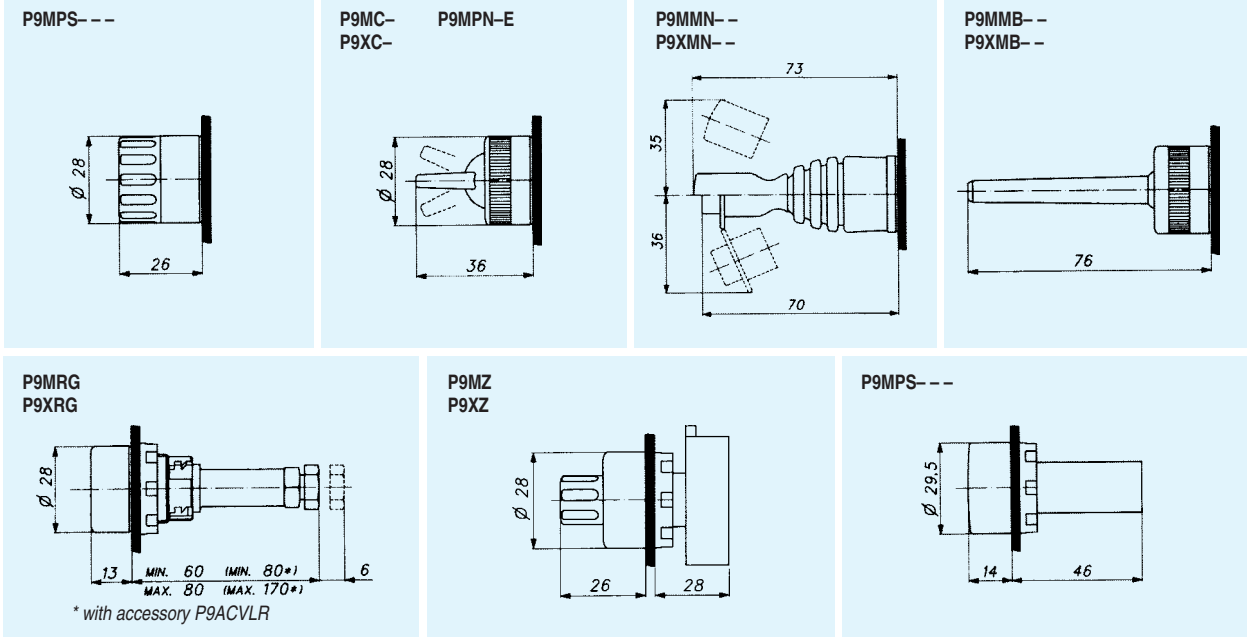
Round operators - Illuminated push-buttons and selector switches



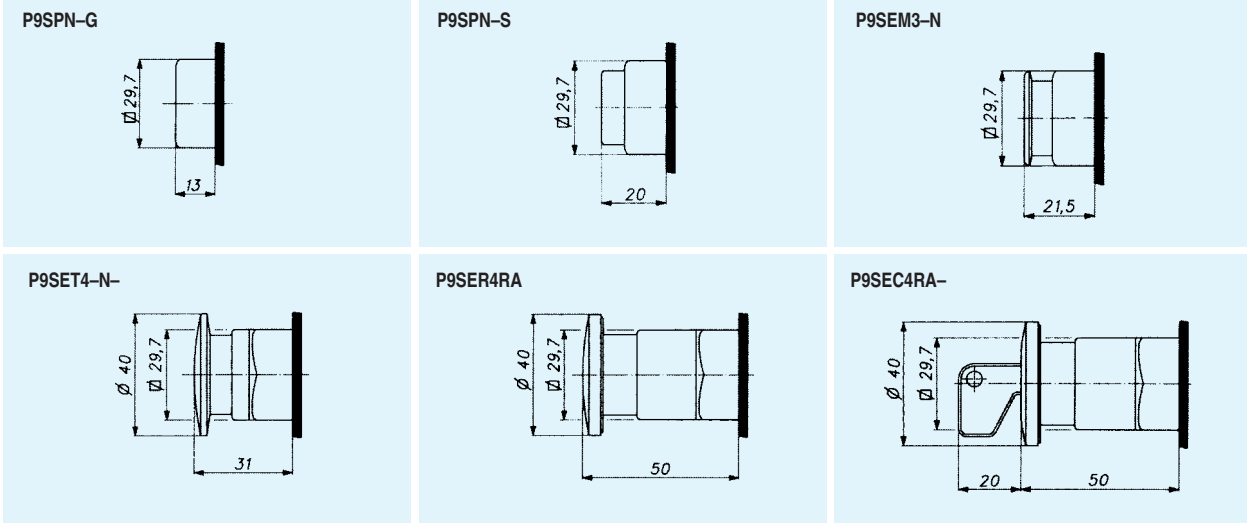
Round operators - Pilot lights



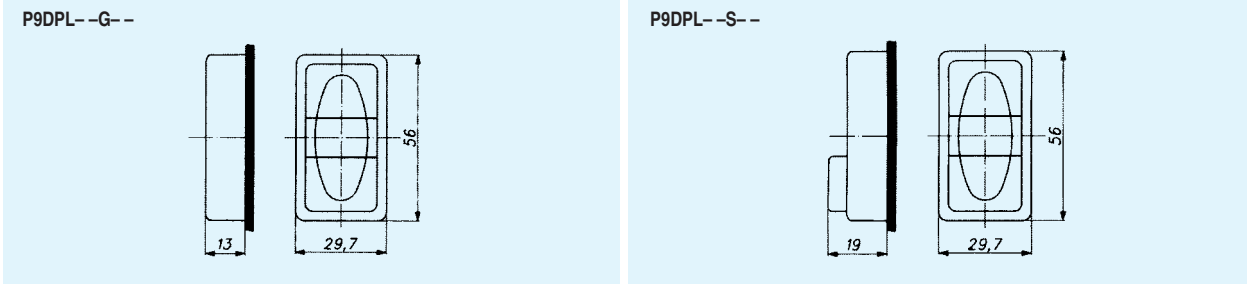
Round operators - Other devices



Square operators - Push-buttons

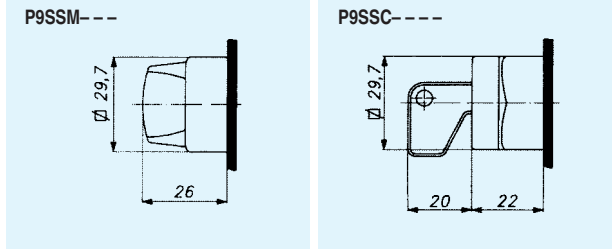


Square operators - Double function push-buttons

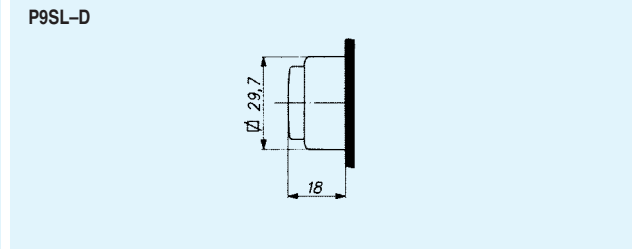


Dimensional drawings

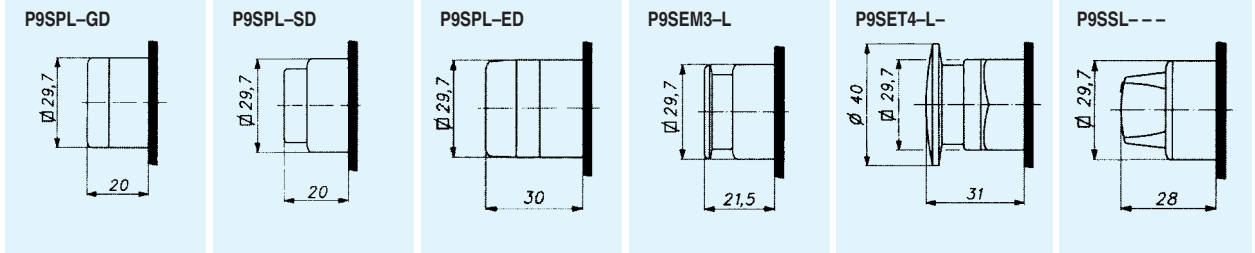
Square operators - Selector switches



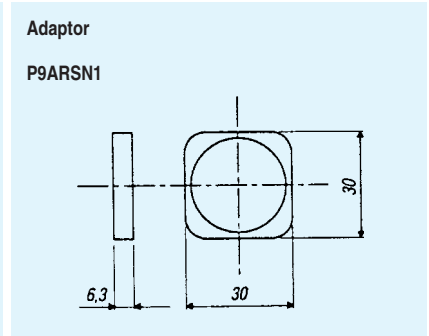
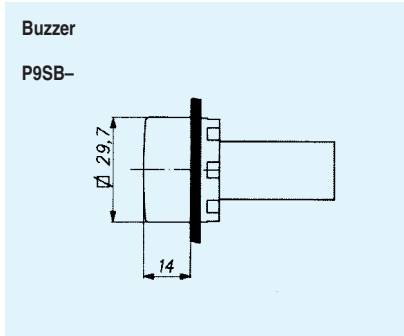
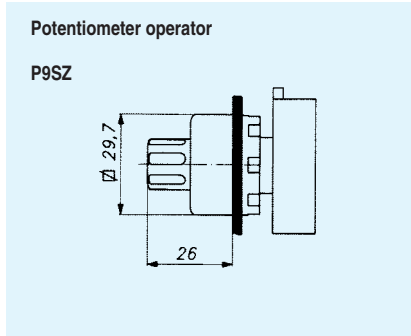
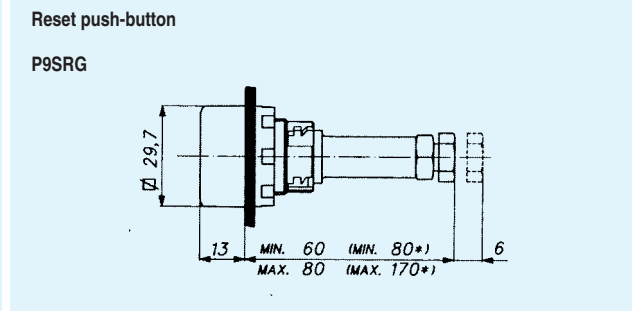
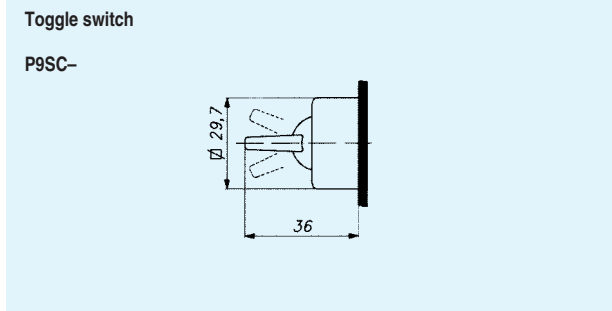
Square operators - Pilot lights



Square operators - Illuminated push-buttons and selector switches



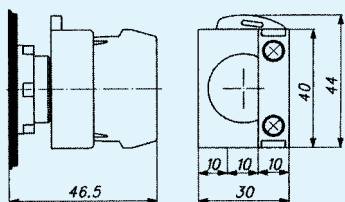
Square operators - Other devices



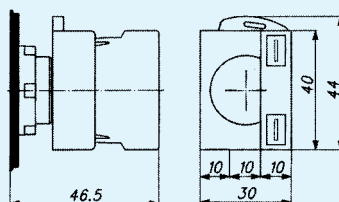
E

Contact blocks

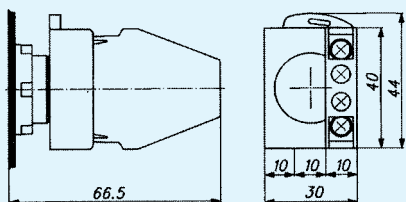
P9B01V- / P9B10V-



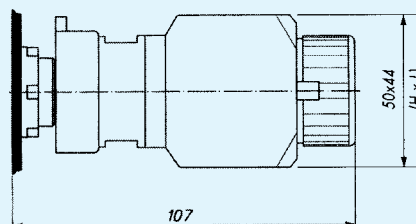
P9B01FN / P9B10FN



P9B011VN / P9B02VN / P9B20VN

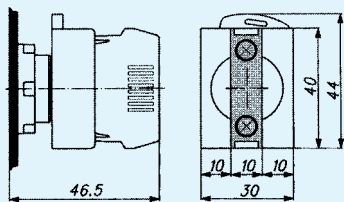


P9B11T-

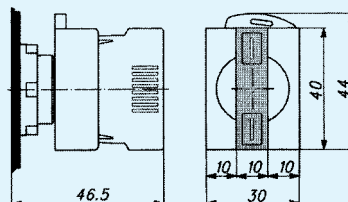


Power supplies

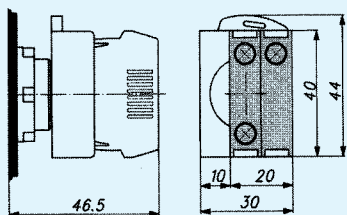
P9PDNV0 / P9PRLV- / P9PRDV-



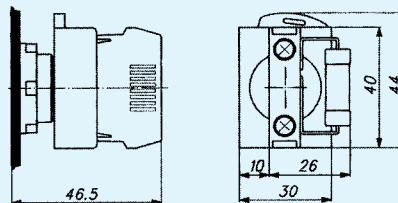
P9PDNF0



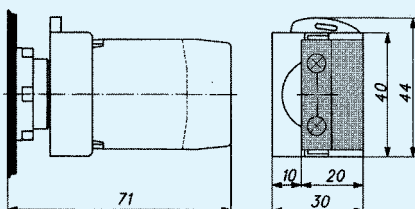
P9PRNV- / P9PDTV0 / P9PRTV-



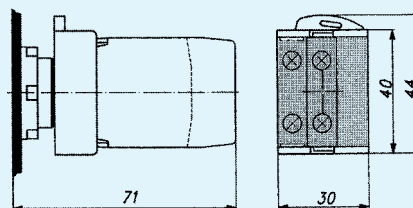
P9PREV-



P9PTNV-



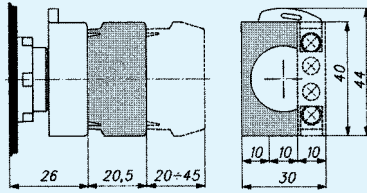
P9PDMV- / P9PTMV-



Dimensional drawings

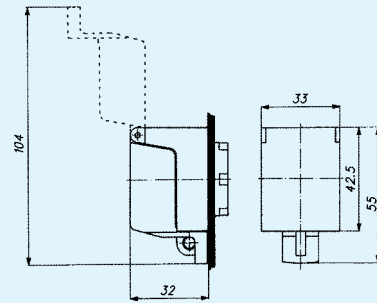
Push-on / push-off devices

P9ACDPP



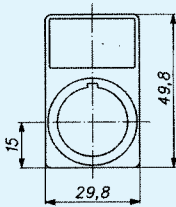
Protection cover

P9ACRCL

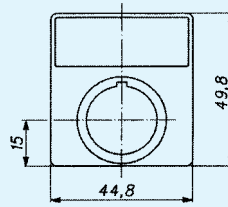


Insert holders and plates

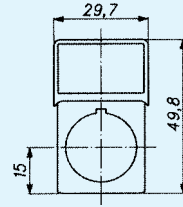
P9ARTBS
P9ARTWS
P9ARTTS



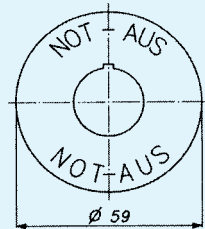
P9ARTBM
P9ARTWM
P9ARTTM



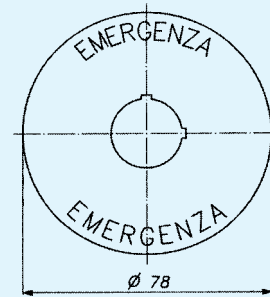
P9ASTBS
P9ASTWS
P9ASTTS



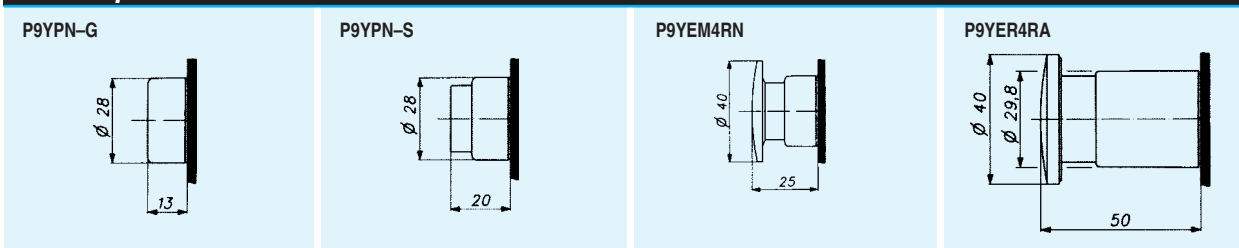
080XTGR--



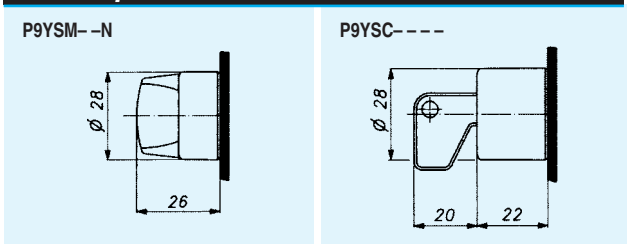
080XTG8--



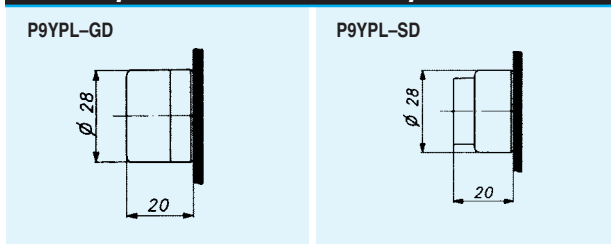
Round operators - Push-buttons



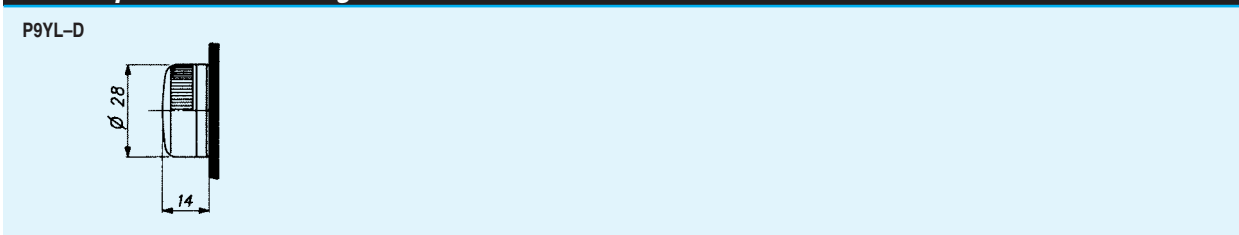
Round operators - Selector switches



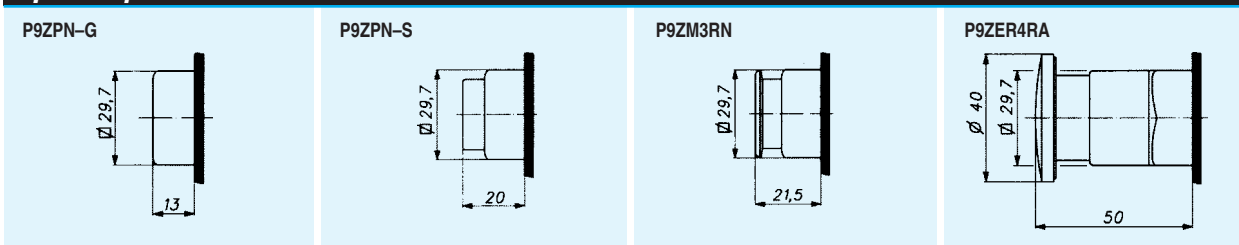
Round operators - Illuminated push-buttons



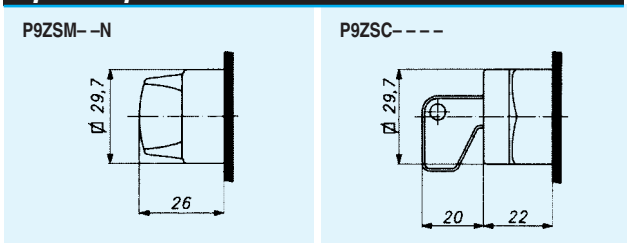
Round operators - Pilot lights



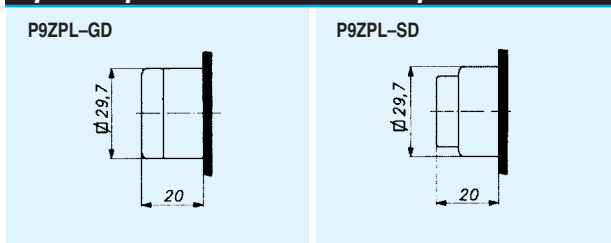
Square operators - Push-buttons



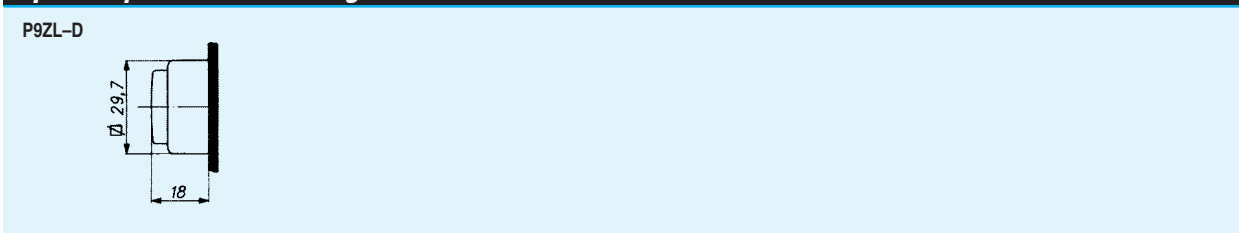
Square operators - Selector switches



Square operators - Illuminated push-buttons



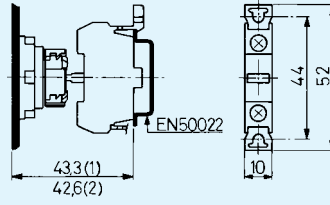
Square operators - Pilot lights



Dimensional drawings

Contact blocks

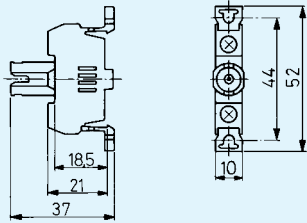
P9B01BN
P9B10BN



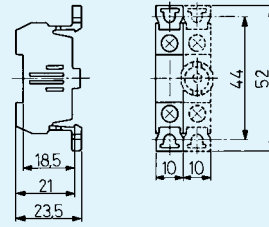
- (1) With insert holder
- (2) Without insert holder

Power supplies

P9PDNBO
P9PRLBJ
P9PRDBN

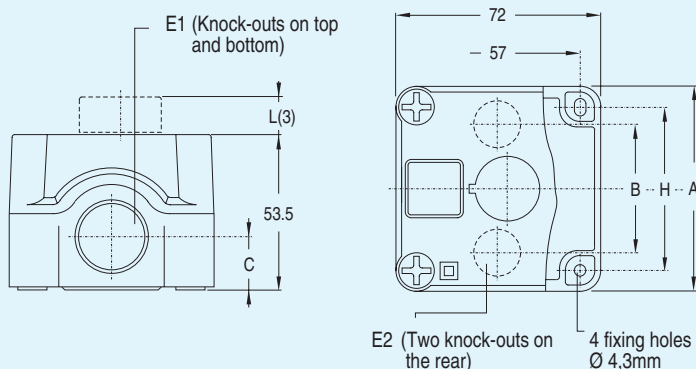


P9PRNBJ
P9PRNBN



Overall dimensions

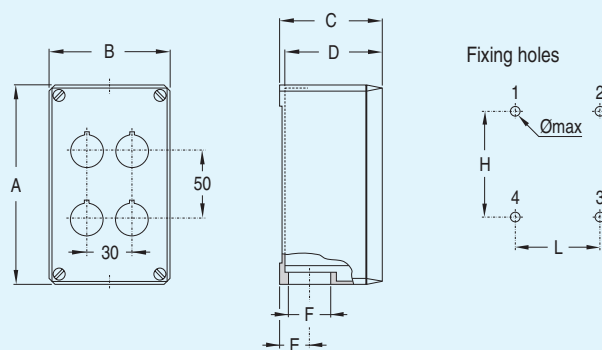
Enclosures for push-button stations in thermoplastic



Holes	A	B	C	E1	E2	H
1	72	46	16.5	23(1)	15.5	57
2	110	78	16.5	23(1)	21.5	95
3	140	108	16.5	23(1)	21.5	125
4	175	143	16.5	23(1)	21.5	160
6	235	200	19.5	29(2)	23	220

- (1) Suitable for cable gland, with locknut, PG16 or 1/2" NPT
- (2) Suitable for cable gland, with locknut, PG21 or 3/4" NPT
- (3) Flush push-button: 13
Pilot light: 14
Emergency push-button: 50
Key selector switch: 22
For customized versions see operator dimensions.

Enclosures for push-button stations in aluminium



Type	Holes Ø 22		Dimensions						Fixing templates	
	vertic.	horizont.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F	HxLxØmax (mm)	position of the holes
1	1	-	87	87	75	72	21.5	PG 21	74x55x4	1-3
1M	1	-	87	87	100	97	21.5	PG 21	68x55x4	1-3
2	2	-	145	87	75	72	21.5	PG 21	132x55x4	1-3
2M	2	-	145	87	100	97	21.5	PG 21	126x55x4	1-3
3	3	-	195	87	100	97	21.5	PG 21	176x55x4	1-3
4	2	2	145	87	75	72	21.5	PG 21	132x55x4	1-3
4M	2	2	145	87	100	97	21.5	PG 21	126x55x4	1-3
6	3	2	195	87	100	97	21.5	PG 21	176x55x4	1-3
8	2	4	152	152	101.5	98.5	27	PG 29	136x119x6	1-3
12	3	4	205	230	101.5	98.5	27	PG 29	172x214x6	1-2-3-4
18	3	6	257	300	101.5	98.5	35	PG 36	221x282x6	1-2-3-4
24	4	6	257	300	101.5	98.5	35	PG 36	221x282x6	1-2-3-4
35	5	7	350	350	123	106.5	41	PG 36	180x180x10	1-2-3-4