

CATALOG 2020

Pilot devices

The complete offering



Modular metal range

Designed for demanding applications

ABB’s modular metal range combines ultimate reliability with the total flexibility of a modular range. For mining, construction and heavy industry applications, find the right solution here.



Pushbuttons



Mushroom pushbuttons



Pilot lights



Selector switches



Key-operated selector switches



Joysticks



Toggle switches



Selector pushbuttons



Installation time savings
Tool-free, snap-on components make mounting and dismantling quick and easy

Snap on holder for 3 or 5 contact blocks

- Assured robustness for demanding environments**
- Full satin chrome metal body and nut
 - High friction nut and metal stops make sure the operator stays in place
 - IP66 high dust and water protection rating

IP66 aluminium metal enclosures are available to accompany this range



Pilot devices

Modular metal range

Ordering details

| | |
|----|--|
| 56 | Non-illuminated pushbuttons momentary |
| 57 | Non-illuminated marked pushbuttons momentary |
| 58 | Illuminated pushbuttons momentary |
| 59 | Non-illuminated mushroom pushbuttons |
| 60 | Illuminated mushroom pushbuttons |
| 61 | Pilot lights |
| 62 | Non-illuminated selector switches |
| 63 | Illuminated selector switches |
| 68 | Key-operated selector switches |
| 72 | Joysticks |
| 74 | Toggle switches |
| 75 | Selector pushbuttons |

Accessories for modular range

| | |
|----|--|
| 76 | Holder and contact blocks for front mounting |
| 77 | Power supplies |
| 78 | LED bulbs for power supplies |
| 79 | LED blocks for front mounting |
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Modular metal range

Non-illuminated pushbuttons momentary



P9MPNRG with holder

1SFC151476V0001



P9MPNRG

1SFC151525V0001



P9MPNGG

1SFC151529V0001



P9MPNNG

1SFC151530V0001



P9MPNBS

1SFC151528V0001



P9MPNRS

1SFC151519V0001



P9MPNVS

1SFC151518V0001



P9MPNLS

1SFC151521V0001



P9MPNNS

1SFC151520V0001



P9ACDPP

1SFC151628V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

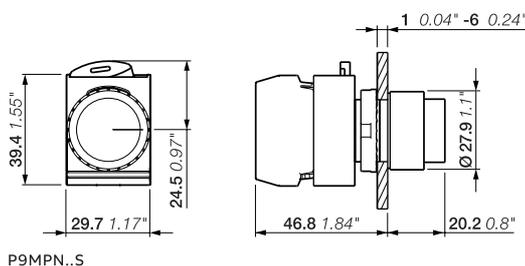
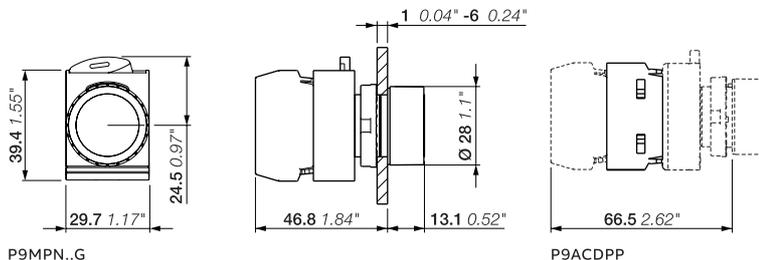
| Operator | Type | Order code | Pkg qty | Weight (1 pce) kg |
|-------------------------|---------|-----------------|---------|-------------------|
| Flush pushbutton | | | | |
| ● Red | P9MPNRG | 1SFA184001R9001 | 1 | 0.058 |
| ● Green | P9MPNVG | 1SFA184002R9002 | 1 | 0.058 |
| ● Yellow | P9MPNGG | 1SFA184003R9003 | 1 | 0.058 |
| ● Blue | P9MPNLS | 1SFA184006R9004 | 1 | 0.058 |
| ○ White | P9MPNBS | 1SFA184007R9005 | 1 | 0.058 |
| ● Black | P9MPNNG | 1SFA184000R9006 | 1 | 0.058 |

Extended pushbutton

| | | | | |
|----------|---------|-----------------|---|-------|
| ● Red | P9MPNRS | 1SFA184011R9001 | 1 | 0.062 |
| ● Green | P9MPNVS | 1SFA184012R9002 | 1 | 0.062 |
| ● Yellow | P9MPNGS | 1SFA184057R9003 | 1 | 0.062 |
| ● Blue | P9MPNLS | 1SFA184016R9004 | 1 | 0.062 |
| ○ White | P9MPNBS | 1SFA184017R9005 | 1 | 0.062 |
| ● Black | P9MPNNS | 1SFA184010R9006 | 1 | 0.062 |

Maintained accessory

| | | | | |
|--|---------|-----------------|---|-------|
| Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN | P9ACDPP | 1SFA187843R8000 | 1 | 0.012 |
|--|---------|-----------------|---|-------|



Dimensions (mm, inches)

Modular metal range

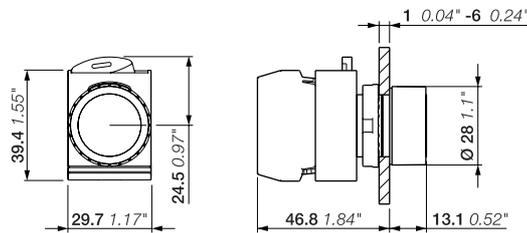
Non-illuminated marked pushbuttons momentary



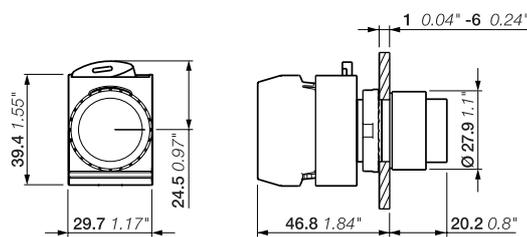
Flush pushbuttons

Each reference includes the satin chrome metal body and nut together with the holder.

| Text/symbol | Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|-------------|-------|------------|-----------------|---------|-------------------|
| START | Green | P9MPNVG202 | 1SFA187149R9502 | 1 | 0.058 |
| STOP | Red | P9MPNRG201 | 1SFA187147R9501 | 1 | 0.058 |
| | Black | P9MPNNG201 | 1SFA188908R9506 | 1 | 0.058 |
| R | Blue | P9MPNNG037 | 1SFA187143R9504 | 1 | 0.058 |
| ⊕ | Green | P9MPNVG030 | 1SFA187146R9502 | 1 | 0.058 |
| | White | P9MPNBG030 | 1SFA188057R9505 | 1 | 0.058 |
| | Black | P9MPNNG030 | 1SFA187145R9506 | 1 | 0.058 |
| I | Green | P9MPNVG028 | 1SFA187112R9502 | 1 | 0.058 |
| | White | P9MPNBG028 | 1SFA187151R9505 | 1 | 0.058 |
| | Black | P9MPNNG028 | 1SFA187111R9506 | 1 | 0.058 |
| O | Red | P9MPNRG029 | 1SFA187110R9501 | 1 | 0.058 |
| | Black | P9MPNNG029 | 1SFA187150R9506 | 1 | 0.058 |
| → | Green | P9MPNVG006 | 1SFA187118R9502 | 1 | 0.058 |
| | White | P9MPNBG006 | 1SFA187152R9505 | 1 | 0.058 |
| | Black | P9MPNNG006 | 1SFA187117R9506 | 1 | 0.058 |



P9MPN..G



P9MPN..S

Dimensions (mm, inches)

Modular metal range

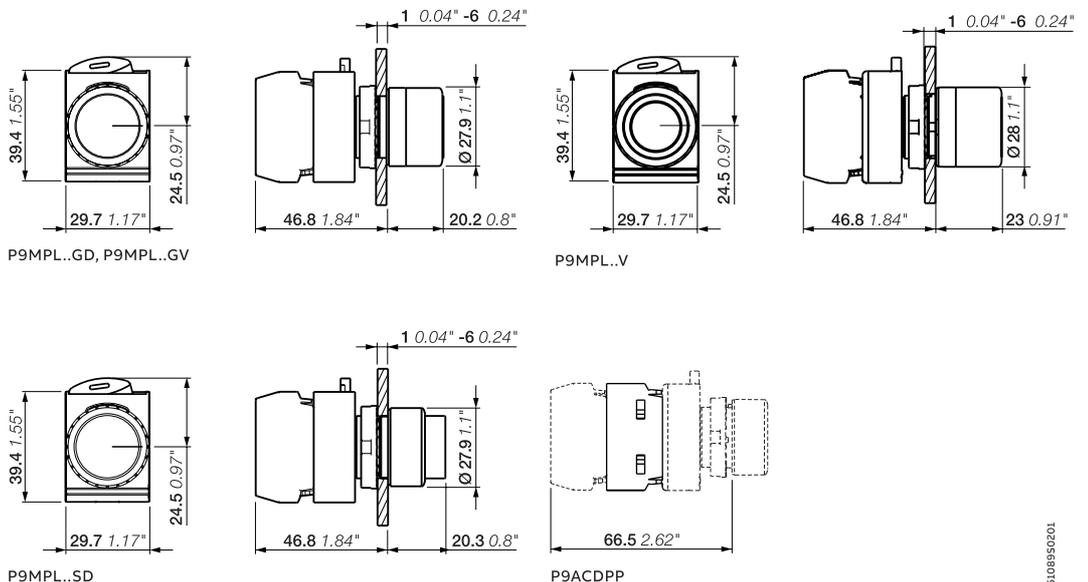
Illuminated pushbuttons momentary



Description

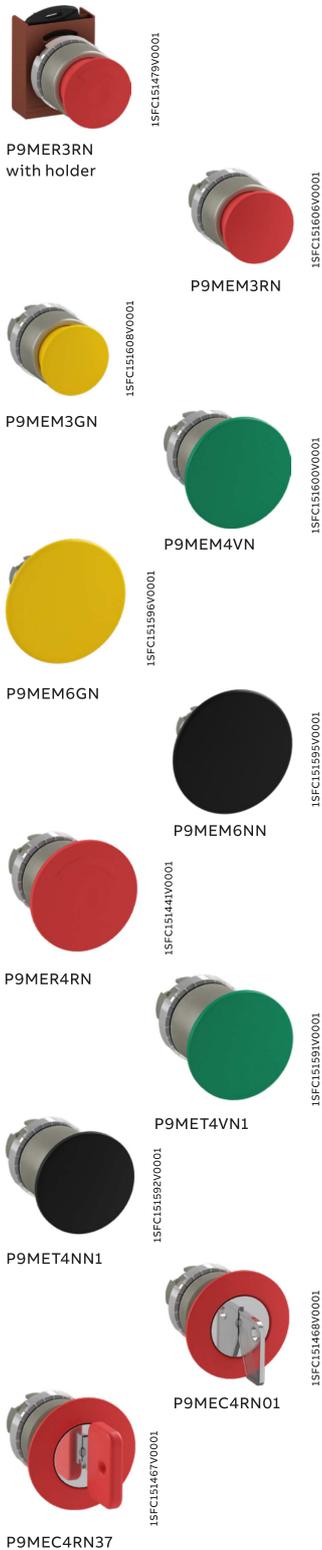
Each reference includes the satin chrome metal body and nut together with the holder.

| Operator | Type | Order code | Pkg qty | Weight (1 pce) kg |
|--|----------|-----------------|---------|-------------------|
| Flush pushbutton - Plastic lens type | | | | |
| ● Red | P9MPLRGD | 1SFA184491R9101 | 1 | 0.057 |
| ● Green | P9MPLVGD | 1SFA184492R9102 | 1 | 0.057 |
| ● Yellow | P9MPLGGD | 1SFA184493R9103 | 1 | 0.057 |
| ● Blue | P9MPLLGD | 1SFA184496R9104 | 1 | 0.057 |
| ○ White | P9MPLBGD | 1SFA184497R9105 | 1 | 0.057 |
| ● Orange | P9MPLAGD | 1SFA184495R9109 | 1 | 0.057 |
| Flush pushbutton - Glass lens type | | | | |
| ● Red | P9MPLRGV | 1SFA184521R9101 | 1 | 0.060 |
| ● Green | P9MPLVGV | 1SFA184522R9102 | 1 | 0.060 |
| ● Yellow | P9MPLGGV | 1SFA184523R9103 | 1 | 0.060 |
| ● Blue | P9MPLLGV | 1SFA184526R9104 | 1 | 0.060 |
| ○ White | P9MPLBGV | 1SFA184527R9105 | 1 | 0.060 |
| Extended pushbutton - Plastic lens type | | | | |
| ● Red | P9MPLRSD | 1SFA184501R9101 | 1 | 0.059 |
| ● Green | P9MPLVSD | 1SFA184502R9102 | 1 | 0.059 |
| ● Yellow | P9MPLGSD | 1SFA184503R9103 | 1 | 0.059 |
| ● Blue | P9MPLLSD | 1SFA184506R9104 | 1 | 0.059 |
| ○ White | P9MPLBSD | 1SFA184507R9105 | 1 | 0.059 |
| ● Orange | P9MPLASD | 1SFA184505R9109 | 1 | 0.059 |
| Maintained accessory | | | | |
| Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN | P9ACDPP | 1SFA187843R8000 | 1 | 0.012 |



Modular metal range

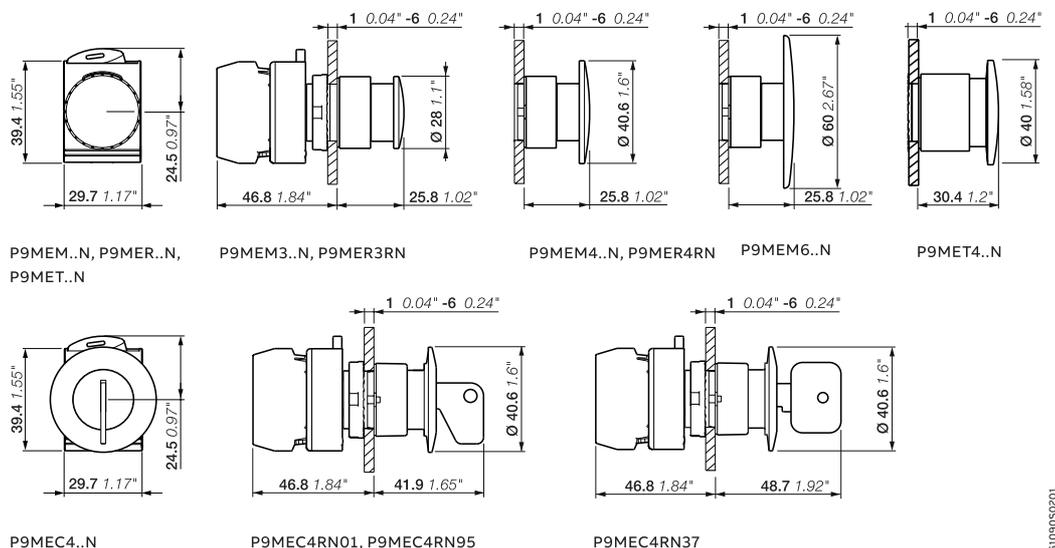
Non-illuminated mushroom pushbuttons



Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Color | Release method | Type | Order code | Pkg qty | Weight (1 pce) kg |
|----------------------------|----------------|------------|-----------------|---------|-------------------|
| Momentary | | | | | |
| Ø 28 mm | | | | | |
| ● Red | – | P9MEM3RN | 1SFA184031R9001 | 1 | 0.060 |
| ● Green | – | P9MEM3VN | 1SFA184032R9002 | 1 | 0.060 |
| ● Yellow | – | P9MEM3GN | 1SFA184033R9003 | 1 | 0.060 |
| ● Black | – | P9MEM3NN | 1SFA184030R9006 | 1 | 0.060 |
| Ø 40 mm | | | | | |
| ● Red | – | P9MEM4RN | 1SFA184041R9001 | 1 | 0.061 |
| ● Green | – | P9MEM4VN | 1SFA184042R9002 | 1 | 0.061 |
| ● Yellow | – | P9MEM4GN | 1SFA184043R9003 | 1 | 0.061 |
| ● Black | – | P9MEM4NN | 1SFA184040R9006 | 1 | 0.061 |
| Ø 60 mm | | | | | |
| ● Red | – | P9MEM6RN | 1SFA184051R9001 | 1 | 0.070 |
| ● Green | – | P9MEM6VN | 1SFA184052R9002 | 1 | 0.070 |
| ● Yellow | – | P9MEM6GN | 1SFA184053R9003 | 1 | 0.070 |
| ● Black | – | P9MEM6NN | 1SFA184050R9006 | 1 | 0.070 |
| Maintained | | | | | |
| Ø 28 mm | | | | | |
| ● Red | Twist release | P9MER3RN | 1SFA184070R9001 | 1 | 0.066 |
| Ø 40 mm | | | | | |
| ● Red | Pull release | P9MET4RN1 | 1SFA184061R9001 | 1 | 0.069 |
| | Twist release | P9MER4RN | 1SFA184071R9001 | 1 | 0.069 |
| ● Green | Pull release | P9MET4VN1 | 1SFA184062R9002 | 1 | 0.069 |
| ● Yellow | Pull release | P9MET4GN1 | 1SFA184063R9003 | 1 | 0.069 |
| ● Black | Pull release | P9MET4NN1 | 1SFA184060R9006 | 1 | 0.069 |
| Maintained with key | | | | | |
| Ø 40 mm | | | | | |
| ● Red | Key code 01 | P9MEC4RN01 | 1SFA192000R9001 | 1 | 0.090 |
| | Key code 37 | P9MEC4RN37 | 1SFA192012R9001 | 1 | 0.090 |
| | Key code 95 | P9MEC4RN95 | 1SFA184073R9001 | 1 | 0.090 |



Dimensions (mm, inches)

Modular metal range

Illuminated mushroom pushbuttons



P9MEM4RL



P9MEM4GL



P9MET4RL1



P9MET4LL1

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Color | Release method | Type | Order code | Pkg qty | Weight (1 pce) kg |
|-------|----------------|------|------------|---------|-------------------|
|-------|----------------|------|------------|---------|-------------------|

Momentary

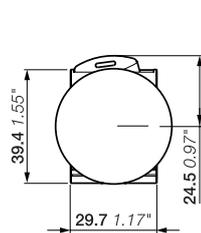
Ø 40 mm

| | | | | | |
|----------|---|----------|-----------------|---|-------|
| ● Red | - | P9MEM4RL | 1SFA184551R9101 | 1 | 0.062 |
| ● Green | - | P9MEM4VL | 1SFA184552R9102 | 1 | 0.062 |
| ● Yellow | - | P9MEM4GL | 1SFA184553R9103 | 1 | 0.062 |
| ● Blue | - | P9MEM4LL | 1SFA184556R9104 | 1 | 0.062 |

Maintained

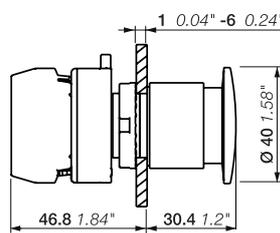
Ø 40 mm

| | | | | | |
|----------|--------------|-----------|-----------------|---|-------|
| ● Red | Pull release | P9MET4RL1 | 1SFA184561R9101 | 1 | 0.062 |
| ● Green | Pull release | P9MET4VL1 | 1SFA184562R9102 | 1 | 0.062 |
| ● Yellow | Pull release | P9MET4GL1 | 1SFA184563R9103 | 1 | 0.062 |
| ● Blue | Pull release | P9MET4LL1 | 1SFA184566R9104 | 1 | 0.062 |

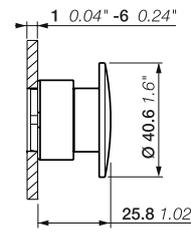


P9MEM4..L, P9MET4..L

Dimensions (mm, inches)



P9MET4..L



P9MEM4..L

Modular metal range

Pilot lights



P9MLBD
with holder

1SFC151478V0001



P9MLRD

1SFC151579V0001



P9MLVD

1SFC151578V0001



P9MLGD

1SFC151582V0001



P9MLLD

1SFC151580V0001



P9MLBD

1SFC151583V0001



P9MLID

1SFC151581V0001



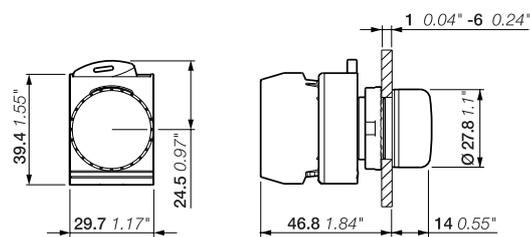
P9MLAD

1SFC151584V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|-------------------------------------|--------|-----------------|---------|-------------------|
| Operator - Plastic lens type | | | | |
| ● Red | P9MLRD | 1SFA184791R9001 | 1 | 0.050 |
| ● Green | P9MLVD | 1SFA184792R9002 | 1 | 0.050 |
| ● Yellow | P9MLGD | 1SFA184793R9003 | 1 | 0.050 |
| ● Blue | P9MLLD | 1SFA184796R9004 | 1 | 0.050 |
| ○ White | P9MLBD | 1SFA184797R9005 | 1 | 0.050 |
| ○ Clear | P9MLID | 1SFA184798R9008 | 1 | 0.050 |
| ● Orange | P9MLAD | 1SFA184795R9009 | 1 | 0.050 |



P9ML...D

Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 2-position

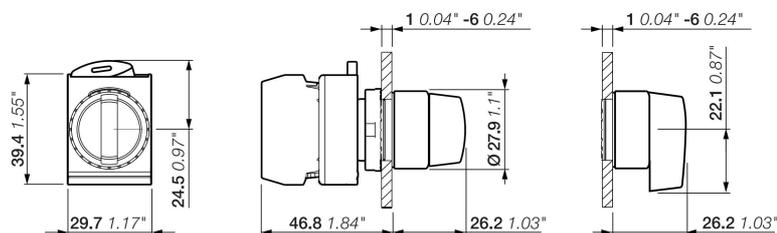
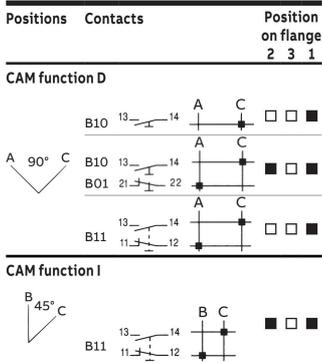


Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|---------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Black | I | P9MSMI0N | 1SFA184120R9006 | 1 | 0.065 |
| | ● Red | D | P9MSMD0R | 1SFA184111R9001 | 1 | 0.065 |
| | ● Black | D | P9MSMD0N | 1SFA184110R9006 | 1 | 0.065 |
| | ● Red | I | P9MSMI5R | 1SFA184151R9001 | 1 | 0.065 |
| | ● Black | I | P9MSMI5N | 1SFA184150R9006 | 1 | 0.065 |
| | ● Red | D | P9MSMD5R | 1SFA184141R9001 | 1 | 0.065 |
| | ● Black | D | P9MSMD5N | 1SFA184140R9006 | 1 | 0.065 |
| Long handle | | | | | | |
| | ● Black | I | P9MSVI0N | 1SFA184371R9006 | 1 | 0.068 |
| | ● Black | D | P9MSVD0N | 1SFA184370R9006 | 1 | 0.068 |
| | ● Black | I | P9MSVI5N | 1SFA184374R9006 | 1 | 0.068 |
| | ● Black | D | P9MSVD5N | 1SFA184373R9006 | 1 | 0.068 |

Contacts actuated



P9MSM, P9MSV
Dimensions (mm, inches)

Modular metal range

Illuminated selector switches - 2-position



1SFCL51511V0001



1SFCL51509V0001



1SFCL51510V0001



1SFCL51512V0001



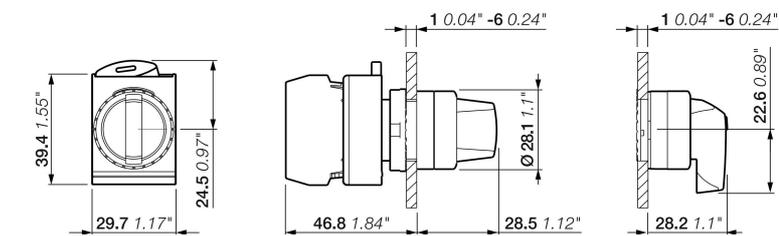
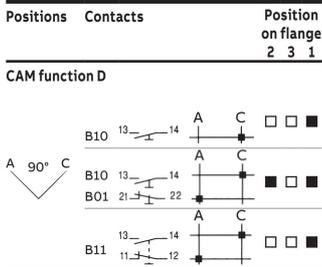
1SFCL51494V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|----------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Red | D | P9MSLD0R | 1SFA184591R9101 | 1 | 0.059 |
| | ● Green | D | P9MSLD0V | 1SFA184592R9102 | 1 | 0.059 |
| | ● Yellow | D | P9MSLD0G | 1SFA184593R9103 | 1 | 0.059 |
| | ● Blue | D | P9MSLD0L | 1SFA184596R9104 | 1 | 0.059 |
| | ○ White | D | P9MSLD0B | 1SFA184597R9105 | 1 | 0.059 |
| | ● Orange | D | P9MSLD0A | 1SFA184595R9109 | 1 | 0.059 |
| Long handle | | | | | | |
| | ● Red | D | P9MSAD0R | 1SFA184641R9101 | 1 | 0.060 |
| | ● Green | D | P9MSAD0V | 1SFA184642R9102 | 1 | 0.060 |
| | ● Blue | D | P9MSAD0L | 1SFA184646R9104 | 1 | 0.060 |
| | ○ White | D | P9MSAD0B | 1SFA184647R9105 | 1 | 0.060 |

Contacts actuated



P9MSL, P9MSA
Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 3-position

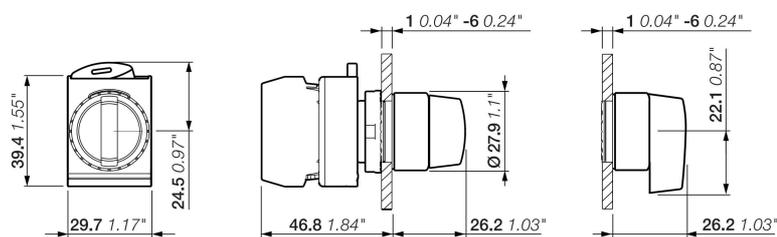
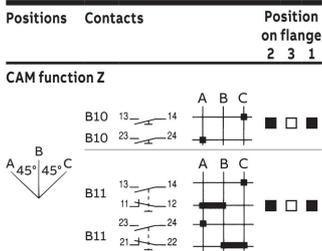


Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|---------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Red | Z | P9MSMZ0R | 1SFA184201R9001 | 1 | 0.065 |
| | ● Black | Z | P9MSMZ0N | 1SFA184200R9006 | 1 | 0.065 |
| | ● Red | Z | P9MSMZ3R | 1SFA184321R9001 | 1 | 0.065 |
| | ● Black | Z | P9MSMZ3N | 1SFA184320R9006 | 1 | 0.065 |
| | ● Black | Z | P9MSMZ5N | 1SFA184280R9006 | 1 | 0.065 |
| | ● Red | Z | P9MSMZ1R | 1SFA184241R9001 | 1 | 0.065 |
| | ● Black | Z | P9MSMZ1N | 1SFA184240R9006 | 1 | 0.065 |
| Long handle | | | | | | |
| | ● Black | Z | P9MSVZ0N | 1SFA184379R9006 | 1 | 0.068 |
| | ● Black | Z | P9MSVZ3N | 1SFA184391R9006 | 1 | 0.068 |
| | ● Black | Z | P9MSVZ5N | 1SFA184387R9006 | 1 | 0.068 |
| | ● Black | Z | P9MSVZ1N | 1SFA184383R9006 | 1 | 0.068 |

Contacts actuated



P9MSM, P9MSV
Dimensions (mm, inches)

Modular metal range

Illuminated selector switches - 3-position

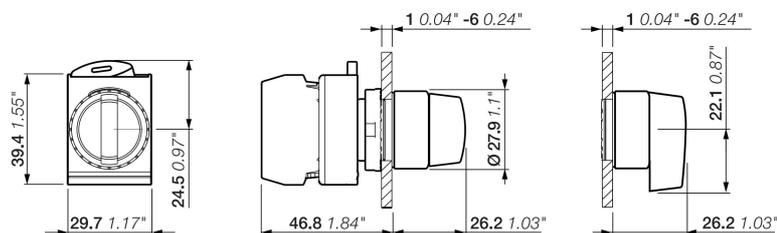
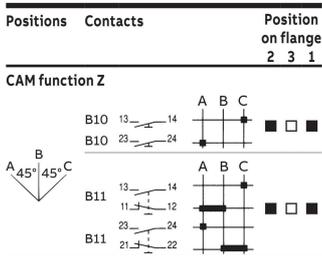


Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|----------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Red | Z | P9MSLZ0R | 1SFA184601R9101 | 1 | 0.065 |
| | ● Green | Z | P9MSLZ0V | 1SFA184602R9102 | 1 | 0.065 |
| | ● Yellow | Z | P9MSLZ0G | 1SFA184603R9103 | 1 | 0.065 |
| | ● Blue | Z | P9MSLZ0L | 1SFA184606R9104 | 1 | 0.065 |
| | ○ White | Z | P9MSLZ0B | 1SFA184607R9105 | 1 | 0.065 |
| | ● Orange | Z | P9MSLZ0A | 1SFA184605R9109 | 1 | 0.065 |
| | ● Red | Z | P9MSLZ3R | 1SFA184631R9101 | 1 | 0.065 |
| | ● Green | Z | P9MSLZ3V | 1SFA184632R9102 | 1 | 0.065 |
| | ● Yellow | Z | P9MSLZ3G | 1SFA184633R9103 | 1 | 0.065 |
| | ● Blue | Z | P9MSLZ3L | 1SFA184636R9104 | 1 | 0.065 |
| | ○ White | Z | P9MSLZ3B | 1SFA184637R9105 | 1 | 0.065 |
| | ● Orange | Z | P9MSLZ3A | 1SFA184635R9109 | 1 | 0.065 |
| | ● Red | Z | P9MSLZ5R | 1SFA184621R9101 | 1 | 0.065 |
| | ● Green | Z | P9MSLZ5V | 1SFA184622R9102 | 1 | 0.065 |
| | ● Red | Z | P9MSLZ1R | 1SFA184611R9101 | 1 | 0.065 |
| | ● Green | Z | P9MSLZ1V | 1SFA184612R9102 | 1 | 0.065 |
| | ● Yellow | Z | P9MSLZ1G | 1SFA184613R9103 | 1 | 0.065 |
| | ○ White | Z | P9MSLZ1B | 1SFA184617R9105 | 1 | 0.065 |
| Long handle | | | | | | |
| | ● Green | Z | P9MSAZ0V | 1SFA184652R9102 | 1 | 0.068 |
| | ○ White | Z | P9MSAZ0B | 1SFA184657R9105 | 1 | 0.068 |
| | ● Green | Z | P9MSAZ3V | 1SFA184682R9102 | 1 | 0.068 |
| | ○ White | Z | P9MSAZ3B | 1SFA184687R9105 | 1 | 0.068 |
| | ● Orange | Z | P9MSAZ3A | 1SFA184685R9109 | 1 | 0.068 |

Contacts actuated



P9MSL, P9MSA
Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 4-position



1SFCL151471V0001

P9MSMX0N with holder

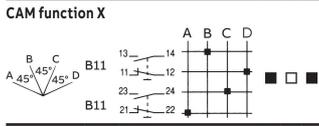


P9MSMX0N

1SFCL151508V0001

Contacts actuated

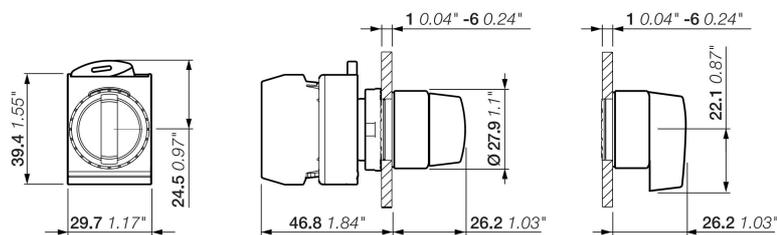
| Positions | Contacts | Position on flange |
|-----------|----------|--------------------|
| | | 2 3 1 |



Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|---------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Black | X | P9MSMX0N | 1SFA184397R9006 | 1 | 0.065 |
| | ● Black | X | P9MSMX5N | 1SFA184340R9006 | 1 | 0.065 |
| Long handle | | | | | | |
| | ● Black | X | P9MSVX0N | 1SFA184392R9006 | 1 | 0.068 |
| | ● Black | X | P9MSVX5N | 1SFA184393R9006 | 1 | 0.068 |



P9MSM, P9MSV
Dimensions (mm, inches)

Modular metal range

Non-illuminated selector switches - 5-position



1SFC1511V0001

P9MSMYOR

Description

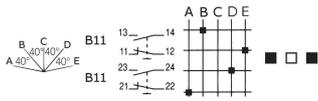
Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|---------|--------------|----------|-----------------|---------|-------------------|
| Short handle | | | | | | |
| | ● Black | W | P9MSMW0N | 1SFA184360R9006 | 1 | 0.065 |
| | ● Red | Y | P9MSMYOR | 1SFA184351R9001 | 1 | 0.065 |
| | ● Black | Y | P9MSMY0N | 1SFA184350R9006 | 1 | 0.065 |

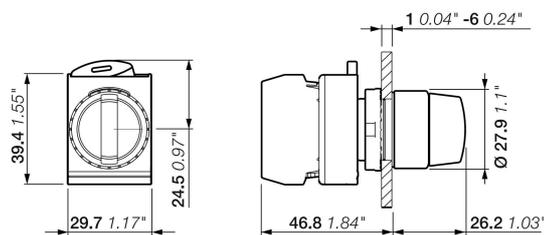
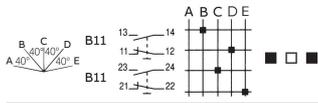
Contacts actuated

| Positions | Contacts | Position on flange |
|-----------|----------|--------------------|
| | | 2 3 1 |

CAM function Y



CAM function W



P9MSM

Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 2-position



P9MSC10C37 with holder



P9MSC10C95

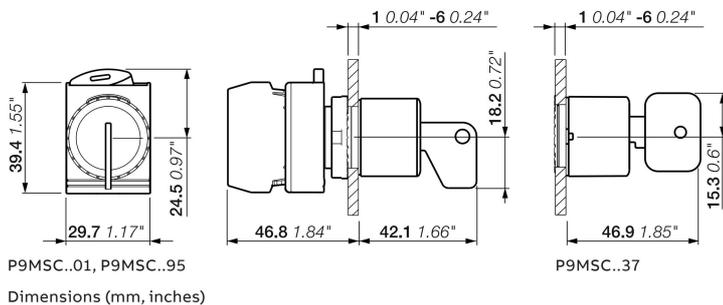
Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Key code | Key head color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|----------|----------------|--------------|------------|-----------------|---------|-------------------|
| Key can be removed in B only | 37 | Red/Metal | I | P9MSC10C37 | 1SFA192162R9006 | 1 | 0.120 |
| | 01 | Metal | I | P9MSC10C01 | 1SFA192150R9006 | 1 | 0.120 |
| | 95 | Metal | I | P9MSC10C95 | 1SFA184403R9006 | 1 | 0.120 |
| Key can be removed in C only | 01 | Metal | I | P9MSC10E01 | 1SFA192165R9006 | 1 | 0.120 |
| | 95 | Metal | I | P9MSC10E95 | 1SFA184404R9006 | 1 | 0.120 |
| Key can be removed in B and C | 95 | Metal | I | P9MSC10N95 | 1SFA184405R9006 | 1 | 0.120 |
| Key can be removed in A only | 37 | Red/Metal | D | P9MSCD0A37 | 1SFA192117R9006 | 1 | 0.120 |
| | 01 | Metal | D | P9MSCD0A01 | 1SFA192105R9006 | 1 | 0.120 |
| | 95 | Metal | D | P9MSCD0A95 | 1SFA184400R9006 | 1 | 0.120 |
| Key can be removed in C only | 01 | Metal | D | P9MSCD0E01 | 1SFA192120R9006 | 1 | 0.120 |
| | 95 | Metal | D | P9MSCD0E95 | 1SFA184401R9006 | 1 | 0.120 |
| Key can be removed in A and C positions | 37 | Red/Metal | D | P9MSCD0K37 | 1SFA192147R9006 | 1 | 0.120 |
| | 01 | Metal | D | P9MSCD0K01 | 1SFA192135R9006 | 1 | 0.120 |
| | 95 | Metal | D | P9MSCD0K95 | 1SFA184402R9006 | 1 | 0.120 |
| Key can be removed in B position | 37 | Red/Metal | I | P9MSCI5C37 | 1SFA192267R9006 | 1 | 0.120 |
| | 01 | Metal | I | P9MSCI5C01 | 1SFA192255R9006 | 1 | 0.120 |
| | 95 | Metal | I | P9MSCI5C95 | 1SFA184410R9006 | 1 | 0.120 |
| Key can be removed in A position | 37 | Red/Metal | D | P9MSCD5A37 | 1SFA192252R9006 | 1 | 0.120 |
| | 01 | Metal | D | P9MSCD5A01 | 1SFA192240R9006 | 1 | 0.120 |
| | 95 | Metal | D | P9MSCD5A95 | 1SFA184409R9006 | 1 | 0.120 |

Contacts actuated

| Positions | Contacts | Position on flange |
|----------------|----------|--------------------|
| | | 2 3 1 |
| CAM function D | | |
| A 90° C | B10 | 13-14 |
| | B10 | 13-14 |
| | B01 | 21-22 |
| B 45° C | B11 | 13-14 |
| | B11 | 11-12 |



Modular metal range

Key-operated selector switches - 3-position



1SFC151469V0001

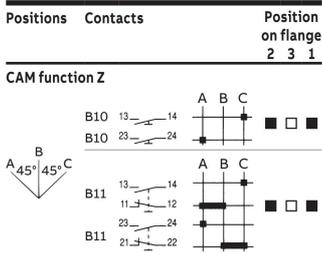
P9MSCZ0T37 with holder



1SFC151516V0001

P9MSCZ0T95

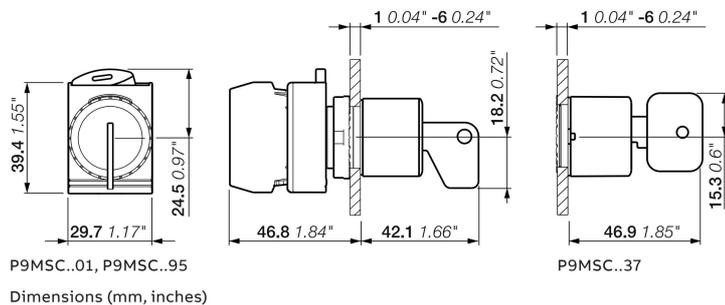
Contacts actuated



Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Key code | Key head color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|----------|----------------|--------------|------------|-----------------|---------|-------------------|
| Key can be removed in all positions | 37 | Red/Metal | Z | P9MSCZ0T37 | 1SFA192702R9006 | 1 | 0.120 |
| | 01 | Metal | Z | P9MSCZ0T01 | 1SFA192690R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ0T95 | 1SFA184439R9006 | 1 | 0.120 |
| Key can be removed in A position only | 95 | Metal | Z | P9MSCZ0A95 | 1SFA184433R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ0C95 | 1SFA184434R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ0H95 | 1SFA184436R9006 | 1 | 0.120 |
| Key can be removed in A and B positions | 95 | Metal | Z | P9MSCZ0N95 | 1SFA184438R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1C95 | 1SFA184449R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |
| Key can be removed in B position only | 95 | Metal | Z | P9MSCZ1C95 | 1SFA184449R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |
| Key can be removed in A and C positions | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ1N95 | 1SFA184451R9006 | 1 | 0.120 |



Modular metal range

Key-operated selector switches - 3-position



1SFC151470V0001

P9MSCZ3C01 with holder



1SFC1516V0001

P9MSCZ0A95

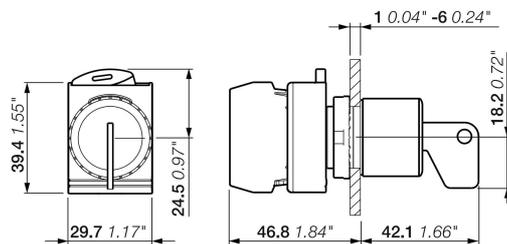
Contacts actuated

| Positions | Contacts | Position on flange |
|----------------|----------|--------------------|
| CAM function Z | | |
| B10 | 13-14 | 2 3 1 |
| B10 | 23-24 | 2 3 1 |
| B11 | 13-14 | 2 3 1 |
| B11 | 11-12 | 2 3 1 |
| B11 | 23-24 | 2 3 1 |
| B11 | 21-22 | 2 3 1 |

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Key code | Key head color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|--|----------|----------------|--------------|------------|-----------------|---------|-------------------|
|  Key can be removed in B position only | 01 | Metal | Z | P9MSCZ3C01 | 1SFA193110R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ3C95 | 1SFA184467R9006 | 1 | 0.120 |
|  Key can be removed in A position only | 01 | Metal | Z | P9MSCZ5A01 | 1SFA193020R9006 | 1 | 0.120 |
| | 95 | Metal | Z | P9MSCZ5A95 | 1SFA184461R9006 | 1 | 0.120 |
| Key can be removed in B position only | 95 | Metal | Z | P9MSCZ5C95 | 1SFA184462R9006 | 1 | 0.120 |
| | 01 | Metal | Z | P9MSCZ5H01 | 1SFA193050R9006 | 1 | 0.120 |
| Key can be removed in A and B positions | | | | | | | |



P9MSC..01, P9MSC..95
Dimensions (mm, inches)

Modular metal range

Key-operated selector switches - 4-position



P9MSCX0A95 with holder



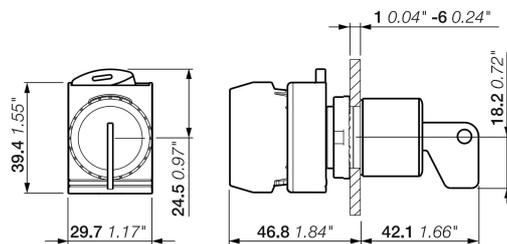
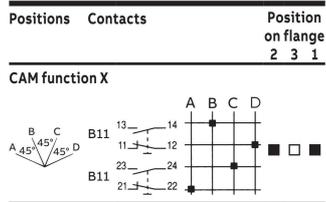
P9MSCX0A95

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | Key code | Key head color | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|----------|----------------|--------------|------------|-----------------|---------|-------------------|
|  Key can be removed in A position | 95 | Metal | X | P9MSCX0A95 | 1SFA184468R9006 | 1 | 0.120 |
| | 01 | Metal | X | P9MSCX0Z01 | 1SFA193335R9006 | 1 | 0.120 |
| Key can be removed in all positions | 95 | Metal | X | P9MSCX0Z95 | 1SFA184482R9006 | 1 | 0.120 |

Contacts actuated



P9MSC..01, P9MSC..95
Dimensions (mm, inches)

Modular metal range

Joysticks - 2-position and 4-position



P9MMN2A with holder

1SFC151477V0001



P9MMN2F

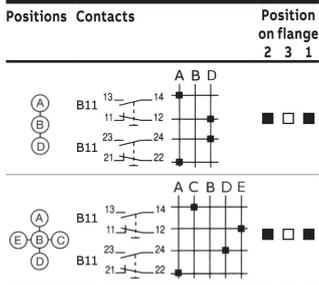
1SFC151574V0001



P9MMB2FG

1SFC151576V0001

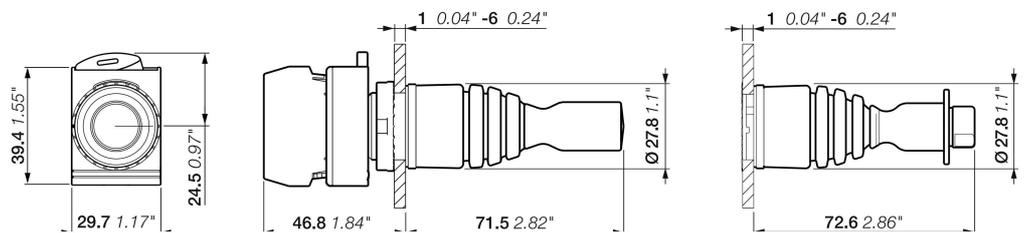
Contacts actuated



Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Position | Material Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|----------------------------------|----------------|----------|-----------------|---------|-------------------|
| Without latching function | | | | | |
| | Rubber/Black | P9MMN2F | 1SFA184700R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMN2T | 1SFA184701R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMN2A | 1SFA184702R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMN2B | 1SFA184703R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMN4F | 1SFA184720R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMN4T | 1SFA184721R9006 | 1 | 0.090 |
| | Silicone/Grey | P9MMN4TG | 1SFA184716R9006 | 1 | 0.090 |
| With latching function | | | | | |
| | Rubber/Black | P9MMB2F | 1SFA184710R9006 | 1 | 0.090 |
| | Silicone/Grey | P9MMB2FG | 1SFA184709R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMB2T | 1SFA184711R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMB2A | 1SFA184712R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMB4F | 1SFA184740R9006 | 1 | 0.090 |
| | Rubber/Black | P9MMB4T | 1SFA184741R9006 | 1 | 0.090 |
| | Silicone/Grey | P9MMB4TG | 1SFA184744R9006 | 1 | 0.090 |



P9MMN, P9MMB
Dimensions (mm, inches)

Modular metal range

Joysticks - Accessories



1SFCL151435V0001

P9ARSCMN



1SFCL151614V0001

P9ARSCMB



1SFCL151434V0001

P9ARSGMN



1SFCL151613V0001

P9ARSGMB

Accessories

| Description | Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|---------|----------|-----------------|---------|-------------------|
| Rubber boot for joystick without latching | ● Black | P9ARSCMN | 1SFA188043R8000 | 1 | 0.008 |
| Rubber boot for joystick with latching | ● Black | P9ARSCMB | 1SFA188044R8000 | 1 | 0.008 |
| Silicone boot for joystick without latching | ● Grey | P9ARSGMN | 1SFA187495R8000 | 1 | 0.008 |
| Silicone boot for joystick with latching | ● Grey | P9ARSGMB | 1SFA187496R8000 | 1 | 0.008 |

Modular metal range

Toggle switches



1SFCL51480V0001

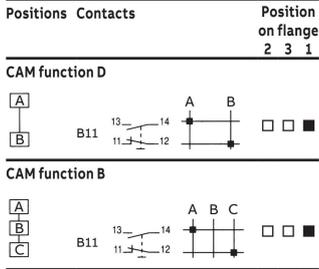
P9MCD with holder



1SFCL51609V0001

P9MCD

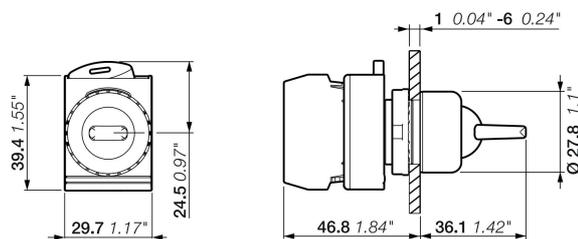
Contacts actuated



Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|--------------|-------|-----------------|---------|-------------------|
| 2 position | | | | | |
| | D | P9MCD | 1SFA184695R9006 | 1 | 0.073 |
| 3 position | | | | | |
| | B | P9MCD | 1SFA184696R9006 | 1 | 0.073 |
| | B | P9MCC | 1SFA184697R9006 | 1 | 0.073 |



P9MC
Dimensions (mm, inches)

Modular metal range

Selector pushbuttons



P9MPS22G with holder

1SFCL51474V0001



P9MPS22G

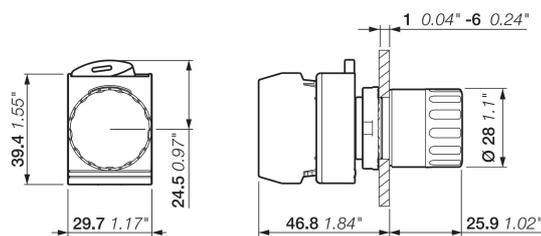
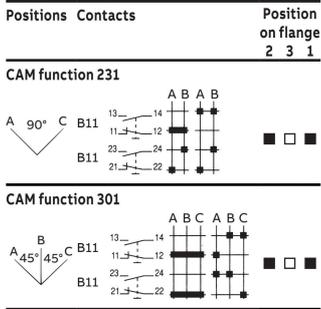
1SFCL51517V0001

Description

Each reference includes the satin chrome metal body and nut together with the holder.

| Operating principle | CAM function | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------|--------------|----------|-----------------|---------|-------------------|
| 2 position | | | | | |
| | 231 | P9MPS22G | 1SFA184691R9006 | 1 | 0.069 |
| 3 position | | | | | |
| | 301 | P9MPS34G | 1SFA184693R9006 | 1 | 0.065 |

Contacts actuated



P9MPS
Dimensions (mm, inches)

Modular metal range

Holders and contact blocks for front mounting



1SFC151627V0001

P9ACFS3



1SFC151626V0001

P9ACFS5



1SFC151611V0001

P9B10VN



1SFC151610V0001

P9B20VN



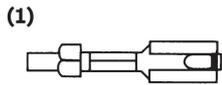
1SFC151611V0001

P9B10VA



1SFC151612V0001

P9B10FN



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

Screw terminals

| Description | Contacts | Type | Order code | Pkg qty | Weight (1 pce) |
|-------------|----------|------|------------|---------|----------------|
| | | | | | kg |

Holders

| | | | | | |
|------------|-----|---------|-----------------|---|-------|
| 3-position | - - | P9ACFS3 | 1SFA187841R8000 | 1 | 0.009 |
| 5-position | - - | P9ACFS5 | 1SFA187842R8000 | 1 | 0.016 |

Single contact blocks

| | | | | | |
|---------------------------|-----|------------|-----------------|-----|-------|
| For 3 & 5-position holder | 1 0 | P9B10VN | 1SFA187002R8001 | 1 | 0.009 |
| | 1 0 | P9B10VN-AA | 1SFA215832R8001 | 200 | 0.009 |
| | 0 1 | P9B01VN | 1SFA187001R8010 | 1 | 0.009 |

Double contact blocks

| | | | | | |
|---------------------------|-----|------------|-----------------|-----|-------|
| For 3 & 5-position holder | 2 0 | P9B20VN | 1SFA187009R8002 | 1 | 0.016 |
| | 0 2 | P9B02VN | 1SFA187008R8020 | 1 | 0.016 |
| | 0 2 | P9B02VN-AA | 1SFA205236R8020 | 200 | 0.016 |
| | 1 1 | P9B11VN | 1SFA187000R8011 | 1 | 0.016 |
| | 1 1 | P9B11VN-AA | 1SFA242712R8011 | 500 | 0.016 |

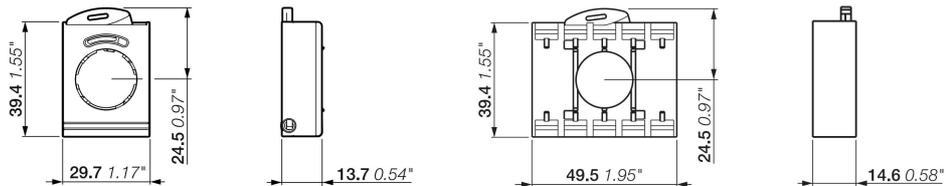
Single contact blocks with N.O. early make contacts and N.C. late break contacts

| | | | | | |
|---------------------------|-----|---------|-----------------|---|-------|
| For 3 & 5-position holder | 1 0 | P9B10VA | 1SFA187004R8201 | 1 | 0.009 |
| | 0 1 | P9B01VR | 1SFA187003R8110 | 1 | 0.010 |

Faston terminals

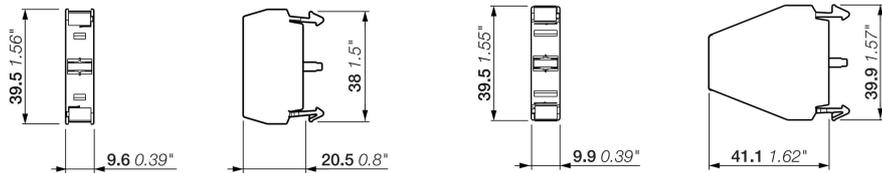
Single contact blocks (1)

| | | | | | |
|---------------------------|-----|------------|-----------------|-----|-------|
| For 3 & 5-position holder | 1 0 | P9B10FN | 1SFA187013R8301 | 1 | 0.009 |
| | 1 0 | P9B10FN-AA | 1SFA215835R8301 | 200 | 0.009 |
| | 0 1 | P9B01FN | 1SFA187012R8310 | 1 | 0.009 |



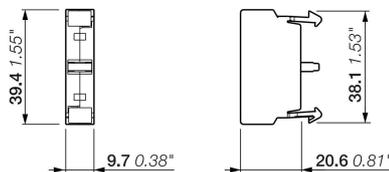
P9ACFS3

P9ACFS5



P9B10VN, P9B01VN, P9B10VA, P9B01VR

P9B20VN, P9B02VN, P9B11VN



P9B10FN, P9B01FN

Dimensions (mm, inches)

Modular metal range

Power supplies



P9PDNV0



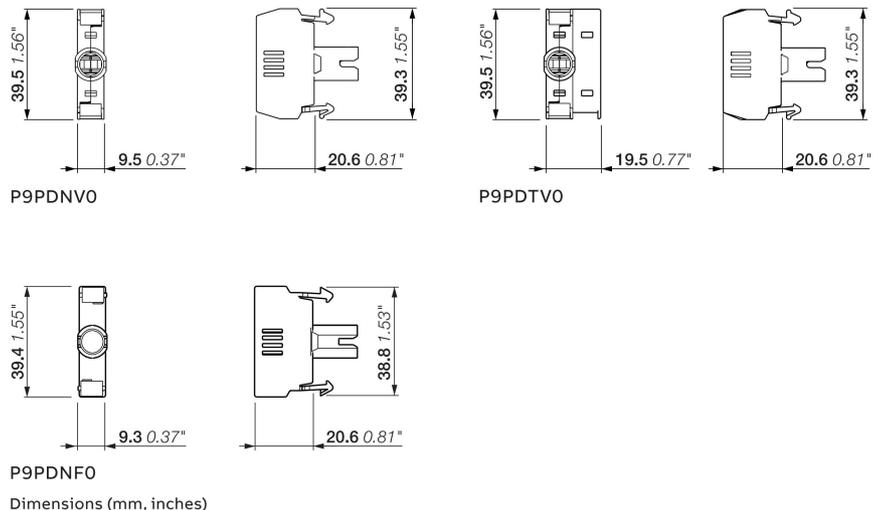
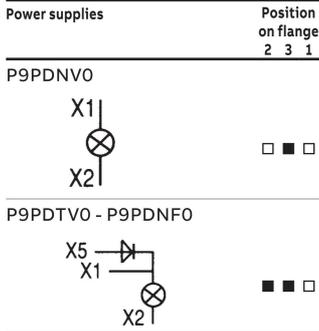
P9PDTV0



P9PDNF0

| Description | Type | Order code | Pkg qty | Weight (1 pce) kg |
|--|------------|-----------------|---------|-------------------|
| Screw terminals | | | | |
| Full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included | P9PDNV0 | 1SFA187020R1080 | 1 | 0.010 |
| | P9PDNV0-AA | 1SFA215831R1000 | 200 | 0.010 |
| Test full voltage IEC: BA9S max 380 V - 2 W bulb not included UL - CSA: BA9S max 250 V - 2 W bulb not included | P9PDTV0 | 1SFA187027R8000 | 1 | 0.018 |
| Faston terminals | | | | |
| Full voltage IEC: BA9S max 380 V - 2 W bulbs not included UL - CSA: BA9S max 250 V - 2 W bulbs not included | P9PDNF0 | 1SFA187055R1300 | 1 | 0.013 |
| | P9PDNF0-AA | 1SFA215834R1300 | 200 | 0.013 |

Contacts actuated



Modular metal range

LED bulbs for power supplies



BA9S6LEDB

1SFC151630V0001

| Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|--|-------------|-----------------|---------|-------------------|
| Rated voltage 6 V AC/DC | | | | |
| ● Red | BA9S6LEDR | 1SFA187163R1001 | | 0.002 |
| ● Green | BA9S6LEDV | 1SFA187164R1002 | | 0.002 |
| ● Yellow | BA9S6LEDG | 1SFA187161R1003 | | 0.002 |
| ● Blue | BA9S6LEDL | 1SFA187162R1001 | | 0.002 |
| ○ White | BA9S6LEDB | 1SFA187160R1005 | | 0.002 |
| Rated voltage 12 V AC/DC | | | | |
| ● Red | BA9S12LEDR | 1SFA187168R1011 | | 0.002 |
| ● Green | BA9S12LEDV | 1SFA187169R1012 | | 0.002 |
| ● Yellow | BA9S12LEDG | 1SFA187166R1013 | | 0.002 |
| ● Blue | BA9S12LEDL | 1SFA187167R1014 | | 0.002 |
| ○ White | BA9S12LEDB | 1SFA187165R1015 | | 0.002 |
| Rated voltage 24 V AC/DC | | | | |
| ● Red | BA9S24LEDR | 1SFA187173R1021 | | 0.002 |
| ● Green | BA9S24LEDV | 1SFA187174R1022 | | 0.002 |
| ● Yellow | BA9S24LEDG | 1SFA187171R1023 | | 0.002 |
| ● Blue | BA9S24LEDL | 1SFA187172R1024 | | 0.002 |
| ○ White | BA9S24LEDB | 1SFA187170R1025 | | 0.002 |
| Rated voltage 48 V AC/DC | | | | |
| ● Red | BA9S48LEDR | 1SFA187178R1031 | | 0.002 |
| ● Green | BA9S48LEDV | 1SFA187179R1032 | | 0.002 |
| ● Yellow | BA9S48LEDG | 1SFA187176R1033 | | 0.002 |
| ● Blue | BA9S48LEDL | 1SFA187177R1034 | | 0.002 |
| ○ White | BA9S48LEDB | 1SFA187175R1035 | | 0.002 |
| Rated voltage 60 V AC/DC | | | | |
| ○ White | BA9S60LED | 1SFA187191R1045 | | 0.002 |
| Rated voltage 110 - 120 V AC/DC | | | | |
| ● Red | BA9S110LEDR | 1SFA187183R1041 | | 0.002 |
| ● Green | BA9S110LEDV | 1SFA187184R1042 | | 0.002 |
| ● Yellow | BA9S110LEDG | 1SFA187181R1043 | | 0.002 |
| ● Blue | BA9S110LEDL | 1SFA187182R1045 | | 0.002 |
| ○ White | BA9S110LEDB | 1SFA187180R1045 | | 0.002 |
| Rated voltage 130 V AC/DC | | | | |
| ○ White | BA9S130LED | 1SFA187190R1045 | | 0.002 |
| Rated voltage 230 V AC | | | | |
| ● Red | BA9S230LEDR | 1SFA187188R1051 | | 0.002 |
| ● Green | BA9S230LEDV | 1SFA187189R1052 | | 0.002 |
| ● Yellow | BA9S230LEDG | 1SFA187186R1053 | | 0.002 |
| ● Blue | BA9S230LEDL | 1SFA187187R1054 | | 0.002 |
| ○ White | BA9S230LEDB | 1SFA187185R1055 | | 0.002 |

Modular metal range

LED blocks for front mounting



P9PLNVDR

Standard Light

| Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------------------|----------|-----------------|---------|-------------------|
| Rated voltage 24 V AC/DC | | | | |
| ● Red | P9PLNVDR | 1SFA197004R1011 | 1 | 0.020 |
| ● Green | P9PLNVDV | 1SFA197005R1012 | 1 | 0.020 |
| ● Yellow | P9PLNVDG | 1SFA197002R1013 | 1 | 0.020 |
| ● Blue | P9PLNVDL | 1SFA197003R1014 | 1 | 0.020 |
| ○ White | P9PLNVDB | 1SFA197001R1015 | 1 | 0.020 |

Rated voltage 120 V AC

| | | | | |
|----------|----------|-----------------|---|-------|
| ● Red | P9PLNVJR | 1SFA197010R1041 | 1 | 0.020 |
| ● Green | P9PLNVJV | 1SFA197011R1042 | 1 | 0.020 |
| ● Yellow | P9PLNVJG | 1SFA197008R1043 | 1 | 0.020 |
| ● Blue | P9PLNVJL | 1SFA197009R1044 | 1 | 0.020 |
| ○ White | P9PLNVJB | 1SFA197007R1045 | 1 | 0.020 |

Rated voltage 230 V AC

| | | | | |
|----------|----------|-----------------|---|-------|
| ● Red | P9PLNVNR | 1SFA197016R1071 | 1 | 0.020 |
| ● Green | P9PLNVNV | 1SFA197017R1072 | 1 | 0.020 |
| ● Yellow | P9PLNVNG | 1SFA197014R1073 | 1 | 0.020 |
| ● Blue | P9PLNVNL | 1SFA197015R1074 | 1 | 0.020 |
| ○ White | P9PLNVNB | 1SFA197013R1075 | 1 | 0.020 |

Flashing Light

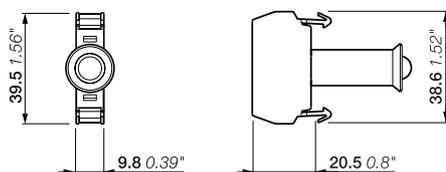
| Color | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---------------------------------|----------|-----------------|---------|-------------------|
| Rated voltage 24 V AC/DC | | | | |
| ● Red | P9PLFVDR | 1SFA197022R1011 | 1 | 0.020 |
| ● Green | P9PLFVDV | 1SFA197023R1012 | 1 | 0.020 |
| ● Yellow | P9PLFVDG | 1SFA197020R1013 | 1 | 0.020 |
| ● Blue | P9PLFVDL | 1SFA197021R1014 | 1 | 0.020 |
| ○ White | P9PLFVDB | 1SFA197019R1015 | 1 | 0.020 |
| ● Orange | P9PLFVDA | 1SFA197018R1019 | 1 | 0.020 |

Rated voltage 120 V AC

| | | | | |
|----------|----------|-----------------|---|-------|
| ● Red | P9PLFVJR | 1SFA197028R1041 | 1 | 0.020 |
| ● Yellow | P9PLFVJG | 1SFA197026R1043 | 1 | 0.020 |
| ○ White | P9PLFVJB | 1SFA197025R1045 | 1 | 0.020 |

Rated voltage 230 V AC

| | | | | |
|----------|----------|-----------------|---|-------|
| ● Red | P9PLFVNR | 1SFA197034R1071 | 1 | 0.020 |
| ● Yellow | P9PLFVNG | 1SFA197032R1073 | 1 | 0.020 |
| ○ White | P9PLFVNB | 1SFA197031R1075 | 1 | 0.020 |



P9PL

Dimensions (mm, inches)

Modular metal range

Accessories



P9ACRCL

1SFC151463V0001



P9ACDPP

1SFC151628V0001



P9ACWAF

1SFC151625V0001



P9ARAM32

1SFC151464V0001



P9ACA6

1SFC151462V0001



080CPR

1SFC151460V0001



080CPN

1SFC151461V0001



P9ARCST

1SFC151465V0001

| Description | Contacts | Type | Order code | Pkg qty | Weight (1 pce) |
|--|---|----------|-----------------|---------|----------------|
| |  | | | | kg |
| Protection cover | | | | | |
| Protection cover padlockable for standard pushbuttons, illuminated pushbuttons, selector switches, illuminated selector switches | | P9ACRCL | 1SFA187840R8000 | 1 | 0.039 |
| Maintained accessory | | | | | |
| Device for standard pushbuttons, illuminated pushbuttons: To be used only with contact blocks P9B01VN, P9B01VR, P9B10VA and P9B01FN | | P9ACDPP | 1SFA187843R8000 | 1 | 0.012 |
| Tools | | | | | |
| Locking ring wrench | | P9ACWAF | 1SFA187845R8000 | 1 | 0.037 |
| Adapter ring | | | | | |
| Adapter ring for 30 mm hole to mount P9 22 mm in a 30 mm hole | | P9ARAM32 | 1SFA188801R8000 | 1 | 0.006 |
| Terminal adapter | | | | | |
| PCB adapter for faston contacts | | P9ACA6 | 1SFA188804R8000 | 1 | 0.051 |

Rubber protective caps (IP66) for standard pushbuttons

Flush pushbuttons

| Description | Type | Order code | Pkg qty | Weight (1 pce) |
|-----------------------|--------|-----------------|---------|----------------|
| Nitrile rubber | | | | kg |
| ● Red | 080CPR | 1SFA170191R8000 | 1 | 0.004 |
| ● Green | 080CPV | 1SFA170192R8000 | 1 | 0.004 |
| ● Black | 080CPN | 1SFA170190R8000 | 1 | 0.004 |
| ○ Clear | 080CPT | 1SFA170198R8000 | 1 | 0.004 |

Extended pushbuttons

| | | | | |
|---------|---------|-----------------|---|-------|
| ○ Clear | P9ARCST | 1SFA187490R8000 | 1 | 0.004 |
|---------|---------|-----------------|---|-------|

Modular metal range

Metal enclosures with holes and accessories



080SP8

1SFCL51481V0001



080SP12

1SFCL51489V0001



080SP18

1SFCL51488V0001



080SP24

1SFCL51495V0001

Enclosure with holes for pilot devices

Empty enclosures in aluminium, IP66. Grey color.

| Description | Hole types | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|------------|------------|-----------------|---------|-------------------|
| With hole for cable gland | | | | | |
| 1-seat | 1 | 080SP1 | 1SFA170801R1001 | 1 | 0.313 |
| 2-seat | 2 | 080SP2 | 1SFA170802R1002 | 1 | 0.440 |
| 3-seat | 3 | 080SP3 | 1SFA170803R1003 | 1 | 0.695 |
| 4-seat | 4 | 080SP4 | 1SFA170804R1004 | 1 | 0.435 |
| 6-seat | 6 | 080SP6 | 1SFA170806R1006 | 1 | 0.694 |
| 8-seat | 8 | 080SP8 | 1SFA170807R1008 | 1 | 0.932 |
| 12-seat | 12 | 080SP12 | 1SFA170808R1012 | 1 | 1.685 |
| 18-seat | 18 | 080SP18 | 1SFA170809R1018 | 1 | 2.891 |
| 24-seat | 24 | 080SP24 | 1SFA170810R1024 | 1 | 2.912 |
| With hole for cable gland and deep base | | | | | |
| 1-seat | 1M | 080SP1M | 1SFA170831R1001 | 1 | 0.402 |
| 2-seat | 2M | 080SP2M | 1SFA170832R1002 | 1 | 0.540 |
| 4-seat | 4M | 080SP4M | 1SFA170834R1004 | 1 | 0.530 |
| Without hole for cable gland | | | | | |
| 1-seat | 1 | 080SP1SFE | 1SFA170836R3001 | 1 | 0.335 |
| 2-seat | 2 | 080SP2SFE | 1SFA170842R3002 | 1 | 0.442 |
| 3-seat | 3 | 080SP3SFE | 1SFA170848R3003 | 1 | 0.715 |
| 4-seat | 4 | 080SP4SFE | 1SFA170850R3004 | 1 | 0.453 |
| 6-seat | 6 | 080SP6SFE | 1SFA170852R3006 | 1 | 0.705 |
| 8-seat | 8 | 080SP8SFE | 1SFA170854R3008 | 1 | 0.990 |
| 12-seat | 12 | 080SP12SFE | 1SFA170857R3012 | 1 | 1.737 |
| Without hole for cable gland and deep base | | | | | |
| 1-seat | 1M | 080SP1MSFE | 1SFA170839R3001 | 1 | 0.416 |

Modular metal range

Metal enclosures without holes



080SP8SFC

1SFC151482V0001



080SP8SF

1SFC151482V0001

Enclosure without holes for pilot devices

Empty enclosures in aluminium, IP66. Grey color.

| Description | Hole types | Type | Order code | Pkg qty | Weight (1 pce) kg |
|---|------------|------------|-----------------|---------|-------------------|
| With hole for cable gland | | | | | |
| | 1 | 080SP1SFC | 1SFA170835R2000 | 1 | 0.324 |
| | 2 | 080SP2SFC | 1SFA170841R2000 | 1 | 0.444 |
| | 3 | 080SP3SFC | 1SFA170847R2000 | 1 | 0.708 |
| | 8 | 080SP8SFC | 1SFA170853R2000 | 1 | 0.977 |
| | 12 | 080SP12SFC | 1SFA170856R2000 | 1 | 1.720 |
| | 18 | 080SP18SFC | 1SFA170859R2000 | 1 | 2.948 |
| With hole for cable gland and deep base | | | | | |
| | 1M | 080SP1MSFC | 1SFA170838R2000 | 1 | 0.405 |
| | 2M | 080SP2MSFC | 1SFA170844R2000 | 1 | 0.542 |
| Without hole for cable gland | | | | | |
| | 1 | 080SP1SF | 1SFA170837R4000 | 1 | 0.333 |
| | 2 | 080SP2SF | 1SFA170843R4000 | 1 | 0.446 |
| | 3 | 080SP3SF | 1SFA170849R4000 | 1 | 0.735 |
| | 8 | 080SP8SF | 1SFA170855R4000 | 1 | 1.019 |
| | 12 | 080SP12SF | 1SFA170858R4000 | 1 | 1.775 |
| | 18 | 080SP18SF | 1SFA170861R4000 | 1 | 3.050 |
| Without hole for cable gland and deep base | | | | | |
| | 1M | 080SP1MSF | 1SFA170840R4000 | 1 | 0.414 |
| | 2M | 080SP2MSF | 1SFA170846R4000 | 1 | 0.553 |

Modular metal range

Technical data

Standards and approvals

| | |
|--------------------|---|
| IEC / EN 60947-1 | Low Voltage switchgear and controlgear - Part 1: General rules |
| IEC / EN 60947-5-1 | Low Voltage switchgear and controlgear - part 5-1: control circuit devices and switching elements - Electromechanical control circuit devices |
| IEC / EN 60073 | Basic and safety principles for man-machine interface, marking and identification coding principles for indicators and actuators |
| IEC / EN 60529 | Degrees of protection provided by enclosures (IP code) |
| UL 508 | Industrial control equipment |
| CSA C22.2 No 14 | Industrial control equipment |

Environmental data

Degrees of protection

| Operators | IEC/EN DIN | UL/CSA |
|----------------------------|------------|----------------------------------|
| Modular metal range: P9M | IP66 | Type 1, 3, 3R, 3S, 4, 4X, 12, 13 |
| Contact block: P9B | IP2x | - |
| Metallic enclosures: 080SP | IP66 | - |

Temperature

| | |
|--------------------------------------|---------------|
| Ambient temperature during operation | -30 to +70 °C |
| Storage temperature | -40 to +70 °C |

Terminals

Screws

| | |
|------------------|---|
| Connectable area | min. 1 x 0.34 mm ² /AWG 22 max. 2 x 4 mm ² /2 x AWG 12 |
|------------------|---|

Tightening torque

| | |
|-----------------------|-------------------------|
| Operators locking nut | Min. 2 Nm / Max. 2.3 Nm |
| Cable terminals | 0.9 Nm |

Electrical data

P9B Standard contact blocks

Self cleaning silver contacts, NC contact with positive opening.

Ratings as per IEC 60947-5-1

| | |
|--|-----------------------|
| Rated insulation voltage, U _i | 690 V |
| Rated thermal current, I _{th} | 10 A |
| Rated operational current, I _e Utilization category AC 15, | at: 24 V 10 A |
| | at: 48 V 10 A |
| | at: 60 V 10 A |
| | at: 110 V 6 A |
| | at: 220V 3 A |
| | at: 380 V 2 A |
| Rated operational current, I _e utilisation category DC 13, | at: 500 V 1.5 A |
| | at: 600 V 1.2 A |
| | at: 24 V 2.5 A |
| | at: 48 V 1.4 A |
| | at: 60 V 1 A |
| Rated impulse withstand voltage | at: 110 V 0.55 A |
| | at: 220V 0.27 A |
| | at: 300 V 0.2 A |
| Rated impulse withstand voltage | U _{imp} 4 kV |

Performances according to CSA and UL

| | |
|------------------|--------|
| AC heavy duty | (A600) |
| DC standard duty | (Q300) |

Number of electrical contacts

| Holder | Standard 3 positions | Optional 5 positions |
|--|-------------------------|-------------------------|
| Momentary pushbuttons | | |
| Momentary mushroom pushbuttons | Max 6 | Max 8 |
| Standard selector switches | | |
| Key selector switches | Max 4 | Max 8 |
| Joysticks | | |
| Selector pushbuttons | Max 4 | - |
| Toggle switches | | |
| Maintained mushroom pushbuttons | Max 4 | - |
| Illuminated pushbuttons | | |
| Illuminated momentary mushroom pushbuttons | Max 4 | Max 4 |
| Illuminated selector switches | | |
| Illuminated maintained mushroom pushbuttons | Max 2 | Max 2 |

Short circuit protection

With fuses 16 A gG acc. to IEC 60269-1 and IEC 60269-3

Minimum switching capacity

| | | |
|-------------------------|---------|------|
| Standard contact blocks | 12 V DC | 5 mA |
|-------------------------|---------|------|

Modular metal range

Technical data

Mechanical endurance

| | |
|-------------------------------|----------------------|
| Joysticks | 500 000 operations |
| Key pushbuttons | operations |
| Toggle switches | |
| Illuminated selector switches | |
| Maintained accessory | |
| Standard selector switches | 1 million operations |
| Key selector switches | operations |
| Illuminated pushbuttons | |
| Selector pushbuttons | |
| Standard pushbuttons | 3 million operations |
| Mushroom head pushbuttons | operations |

Performances of the contacts

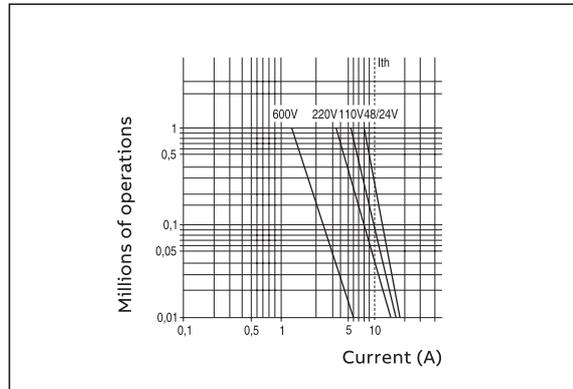
- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

Identification of the terminals

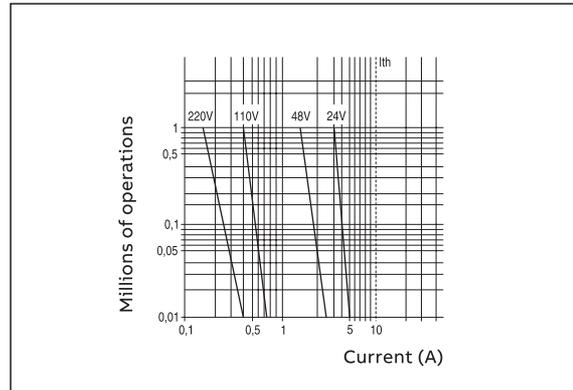
According EN 50013

Electrical endurance

Alternative current 50/60Hz cat. AC 15



Direct current cat. DC 13



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.

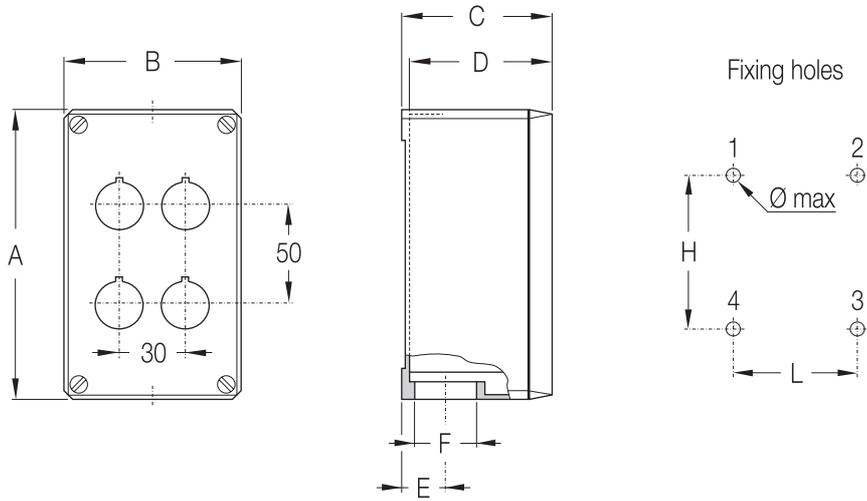
The standard operators are supplied with a three position flange with a capacity of 3 units of 10 mm or 1 of 10 mm and 1 of 20 mm or 1 of 30 mm.

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 width (50 mm instead of 30 mm).

Modular metal range

Dimension



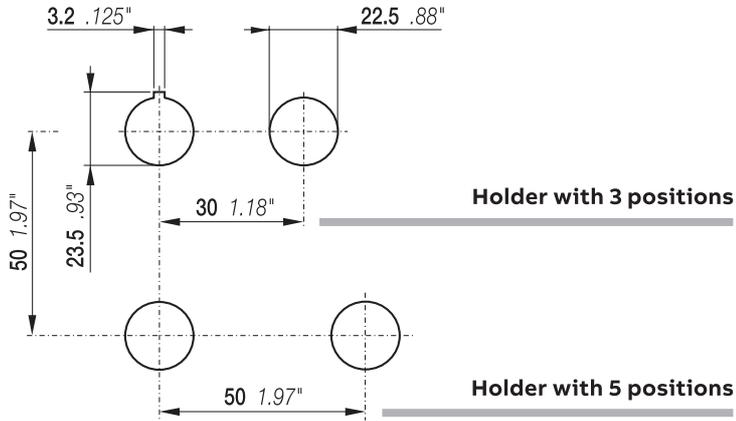
| Hole type | Holes Ø 22 | | Dimensions | | | | | | | | | | | Fixing templates | | |
|-----------|------------|-----------|------------|-------|------|-------|-------|------|------|------|------|------|-------|------------------|----------------|-----------------------|
| | Vertic. | Horizont. | A mm | in | B mm | in | C mm | in | D mm | in | E mm | in | F | H x L x Ø max mm | in | Position of the holes |
| 1 | 1 | - | 87 | 3.43 | 87 | 3.43 | 75 | 2.95 | 72 | 72 | 21.5 | 0.85 | PG 21 | 74x55x4 | 2.91x2.17x0.16 | 1-3 |
| 1M | 1 | - | 87 | 3.43 | 87 | 3.43 | 100 | 3.94 | 97 | 97 | 21.5 | 0.85 | PG 21 | 68x55x4 | 2.68x2.17x0.16 | 1-3 |
| 2 | 2 | - | 145 | 5.71 | 87 | 3.43 | 75 | 2.95 | 72 | 72 | 21.5 | 0.85 | PG 21 | 132x55x4 | 5.2x2.17x0.16 | 1-3 |
| 2M | 2 | - | 145 | 5.71 | 87 | 3.43 | 100 | 3.94 | 97 | 97 | 21.5 | 0.85 | PG 21 | 126x55x4 | 4.96x2.17x0.16 | 1-3 |
| 3 | 3 | - | 195 | 7.68 | 87 | 3.43 | 100 | 3.94 | 97 | 97 | 21.5 | 0.85 | PG 21 | 176x55x4 | 6.93x2.17x0.16 | 1-3 |
| 4 | 2 | 2 | 145 | 5.71 | 87 | 3.43 | 75 | 2.95 | 72 | 72 | 21.5 | 0.85 | PG 21 | 132x55x4 | 5.2x2.17x0.16 | 1-3 |
| 4M | 2 | 2 | 145 | 5.71 | 87 | 3.43 | 100 | 3.94 | 97 | 97 | 21.5 | 0.85 | PG 21 | 126x55x4 | 4.96x2.17x0.16 | 1-3 |
| 6 | 3 | 2 | 195 | 7.68 | 87 | 3.43 | 100 | 3.94 | 97 | 97 | 21.5 | 0.85 | PG 21 | 176x55x4 | 6.93x2.17x0.16 | 1-3 |
| 8 | 2 | 4 | 152 | 5.98 | 152 | 5.98 | 101.5 | 4 | 98.5 | 98.5 | 27 | 1.06 | PG 29 | 136x119x6 | 5.35x4.69x0.24 | 1-2-3-4 |
| 12 | 3 | 4 | 205 | 8.07 | 230 | 9.06 | 101.5 | 4 | 98.5 | 98.5 | 27 | 1.06 | PG 29 | 172x214x6 | 6.77x8.43x0.24 | 1-2-3-4 |
| 18 | 3 | 6 | 257 | 10.12 | 300 | 11.81 | 101.5 | 4 | 98.5 | 98.5 | 35 | 1.38 | PG 36 | 221x282x6 | 8.7x11.1x0.24 | 1-2-3-4 |
| 24 | 4 | 6 | 257 | 10.12 | 300 | 11.81 | 101.5 | 4 | 98.5 | 98.5 | 35 | 1.38 | PG 36 | 221x282x6 | 8.7x11.1x0.24 | 1-2-3-4 |

Modular metal range

Drilling plan

Mounting

Fitted for panels 1 to 6 mm thick with holes drilled according to IEC60947-5-1 standards.



03

Enclosures

Legend plate holders and inserts



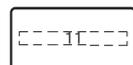
MA6-1060

1SFC151400V0001

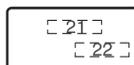


MA6-1061

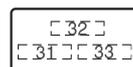
1SFC151380V0001



1-position insert



2-position insert



3-position insert

Description

For Ø 22 mm operator, can be used with MEP plastic enclosures, laser marked with text or symbols. Inserts are made of plastic and aluminium laminate.

| Description | Type | Order code | Pkg qty | Weight (1pce) kg |
|----------------------------|----------|-----------------|---------|------------------|
| Legend plate holder | | | | |
| Grey plastic | MA6-1060 | 1SFA611930R1060 | 10 | 0.002 |

Insert

| | | | | |
|------------------------|----------|-----------------|----|-------|
| Without text or symbol | MA6-1061 | 1SFA611930R1061 | 10 | 0.001 |
|------------------------|----------|-----------------|----|-------|

1-position inserts

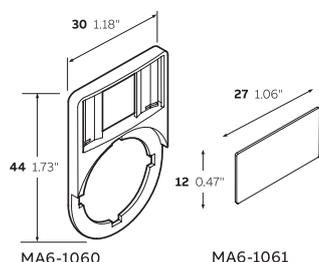
| | | | | |
|---------|----------|-----------------|----|-------|
| O | MA6-1062 | 1SFA611930R1062 | 10 | 0.001 |
| I | MA6-1063 | 1SFA611930R1063 | 10 | 0.001 |
| II | MA6-1064 | 1SFA611930R1064 | 10 | 0.001 |
| → | MA6-1065 | 1SFA611930R1065 | 10 | 0.001 |
| → | MA6-1130 | 1SFA611930R1130 | 10 | 0.001 |
| → → | MA6-1131 | 1SFA611930R1131 | 10 | 0.001 |
| Close | MA6-1132 | 1SFA611930R1132 | 10 | 0.001 |
| Open | MA6-1133 | 1SFA611930R1133 | 10 | 0.001 |
| On | MA6-1134 | 1SFA611930R1134 | 10 | 0.001 |
| Off | MA6-1135 | 1SFA611930R1135 | 10 | 0.001 |
| Fast | MA6-1136 | 1SFA611930R1136 | 10 | 0.001 |
| Slow | MA6-1137 | 1SFA611930R1137 | 10 | 0.001 |
| Down | MA6-1138 | 1SFA611930R1138 | 10 | 0.001 |
| Up | MA6-1139 | 1SFA611930R1139 | 10 | 0.001 |
| Start | MA6-1140 | 1SFA611930R1140 | 10 | 0.001 |
| Stop | MA6-1141 | 1SFA611930R1141 | 10 | 0.001 |
| Forward | MA6-1152 | 1SFA611930R1152 | 10 | 0.001 |
| Reverse | MA6-1153 | 1SFA611930R1153 | 10 | 0.001 |

2-position inserts for selector switches

| Pos.21 | Pos.22 | | | | |
|--------|--------|----------|-----------------|----|-------|
| O | I | MA6-1170 | 1SFA611930R1170 | 10 | 0.001 |
| I | II | MA6-1171 | 1SFA611930R1171 | 10 | 0.001 |
| → | → → | MA6-1172 | 1SFA611930R1172 | 10 | 0.001 |
| Off | On | MA6-1173 | 1SFA611930R1173 | 10 | 0.001 |
| Stop | Start | MA6-1174 | 1SFA611930R1174 | 10 | 0.001 |
| Low | High | MA6-1175 | 1SFA611930R1175 | 10 | 0.001 |
| Slow | Fast | MA6-1176 | 1SFA611930R1176 | 10 | 0.001 |
| Close | Open | MA6-1177 | 1SFA611930R1177 | 10 | 0.001 |
| Jog | Run | MA6-1178 | 1SFA611930R1178 | 10 | 0.001 |
| Hand | Auto | MA6-1179 | 1SFA611930R1179 | 10 | 0.001 |

3-position inserts for selector switches

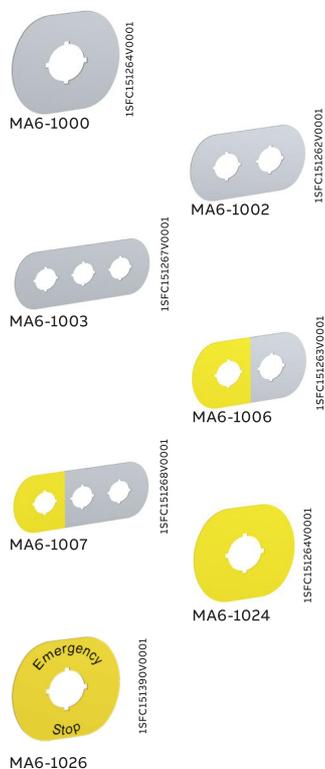
| Pos.31 | Pos.32 | Pos.33 | | | | |
|--------|--------|--------|----------|-----------------|----|-------|
| ← | O | → | MA6-1190 | 1SFA611930R1190 | 10 | 0.001 |
| → | O | → → | MA6-1191 | 1SFA611930R1191 | 10 | 0.001 |
| I | O | II | MA6-1192 | 1SFA611930R1192 | 10 | 0.001 |
| Hand | O | Auto | MA6-1193 | 1SFA611930R1193 | 10 | 0.001 |
| Slow | Off | Fast | MA6-1194 | 1SFA611930R1194 | 10 | 0.001 |



Dimensions (mm, inches)

Enclosures

Legend plates for plastic enclosures MEP and CEP



Legend plates for MEP plastic enclosures

For Ø 22 mm operator, plastic and aluminum laminate with adhesive back. Combine the emergency stop with the yellow legend plates without text to conform with safety of machinery standard EN/ISO 13850.

| Description | Text symbol | Type | Order code | Pkg qty | Weight (1pce) kg |
|--------------------------------------|--------------|----------|-----------------|---------|------------------|
| Aluminum and plastic laminate | | | | | |
| 1-seat | without text | MA6-1000 | 1SFA611930R1000 | 1 | 0.004 |
| 2-seat | without text | MA6-1002 | 1SFA611930R1002 | 1 | 0.006 |
| 3-seat | without text | MA6-1003 | 1SFA611930R1003 | 1 | 0.008 |
| 4-seat | without text | MA6-1004 | 1SFA611930R1004 | 1 | 0.010 |
| 6-seat | without text | MA6-1005 | 1SFA611930R1005 | 1 | 0.012 |
| 1-seat | O | MA6-1012 | 1SFA611930R1012 | 1 | 0.004 |
| 1-seat | I | MA6-1013 | 1SFA611930R1013 | 1 | 0.004 |
| 2-seat | O I | MA6-1014 | 1SFA611930R1014 | 1 | 0.006 |
| 3-seat | O II | MA6-1015 | 1SFA611930R1015 | 1 | 0.008 |
| 3-seat | I O II | MA6-1016 | 1SFA611930R1016 | 1 | 0.008 |

Pos. 1 yellow plastic and aluminium laminate

| | | | | | |
|--------|--------------|----------|-----------------|---|-------|
| 2-seat | without text | MA6-1006 | 1SFA611930R1006 | 1 | 0.006 |
| 3-seat | without text | MA6-1007 | 1SFA611930R1007 | 1 | 0.008 |
| 4-seat | without text | MA6-1008 | 1SFA611930R1008 | 1 | 0.010 |
| 6-seat | without text | MA6-1009 | 1SFA611930R1009 | 1 | 0.012 |

Emergency stop legend plates for 1-seat enclosures

For horizontally mounted enclosures. Yellow plastic laminate. 66 x 59 mm.

| | | | | |
|-----------------|----------|-----------------|----|-------|
| Without text | MA6-1024 | 1SFA611930R1024 | 10 | 0.004 |
| Nöd Stopp | MA6-1025 | 1SFA611930R1025 | 10 | 0.004 |
| Emergency stop | MA6-1026 | 1SFA611930R1026 | 10 | 0.004 |
| Not Aus | MA6-1027 | 1SFA611930R1027 | 10 | 0.004 |
| ARRET D'URGENCE | MA6-1028 | 1SFA611930R1028 | 10 | 0.004 |
| Hätäseis | MA6-1029 | 1SFA611930R1029 | 10 | 0.004 |

For vertically mounted enclosures. Yellow plastic laminate. 59 x 66 mm.

| | | | | |
|-----------------|----------|-----------------|----|-------|
| Nöd Stopp | MA6-1100 | 1SFA611930R1100 | 10 | 0.004 |
| Emergency stop | MA6-1101 | 1SFA611930R1101 | 10 | 0.004 |
| Not Aus | MA6-1102 | 1SFA611930R1102 | 10 | 0.004 |
| ARRET D'URGENCE | MA6-1103 | 1SFA611930R1103 | 10 | 0.004 |
| Hätäseis | MA6-1104 | 1SFA611930R1104 | 10 | 0.004 |

Legend plates for CEP plastic enclosures

For Ø 22 mm operator

| Description | Text symbol | Type | Order code | Pkg qty | Weight (1pce) kg |
|---|-------------|----------|-----------------|---------|------------------|
| Emergency stop legend plates | | | | | |
| Black text on yellow aluminum plate Ø 59 mm | | | | | |
| Without text | | CA6-1024 | 1SFA619930R1024 | 10 | 0.004 |
| Emergency stop | | CA6-1026 | 1SFA619930R1026 | 10 | 0.004 |
| Not Aus | | CA6-1027 | 1SFA619930R1027 | 10 | 0.004 |

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Order code classification

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| 1SFA170190R8000 | 080CPN | 3/80 |
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| 1SFA170192R8000 | 080CPV | 3/80 |
| 1SFA170198R8000 | 080CPT | 3/80 |
| 1SFA170801R1001 | 080SP1 | 3/81 |
| 1SFA170802R1002 | 080SP2 | 3/81 |
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| 1SFA170808R1012 | 080SP12 | 3/81 |
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| 1SFA170857R3012 | 080SP12SFE | 3/81 |
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| 1SFA170859R2000 | 080SP18SFC | 3/82 |
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| 1SFA184795R9009 | P9MLAD | 3/61 |
| 1SFA184796R9004 | P9MLLD | 3/61 |
| 1SFA184797R9005 | P9MLBD | 3/61 |
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