

ROMEO-PK

Joystick station



Sturdy and reliable joystick station, suitable for industrial environments and harsh conditions. Materials, technical solutions and sizing of critical components are studied to guarantee mechanical resistance and long life.

FEATURES

- Designed for Romeo joysticks.
- Carry-on straps and aluminium handles provide for greater ease of use.
- The emergency stop mushroom pushbutton complies with standard EN 418 and is positioned in the middle for intuitive operation in case of danger.
- Mechanical life of switches: 1 million operations.
- IP protection degree: Romeo PK is classified min. IP43 – max. IP65, depending on the joystick.
- Extreme temperature resistance: -25°C to +70°C.
- All materials and components used are wear resistant and guarantee protection of the unit against water and dust.

OPTIONS

- Wide range of actuators: pushbuttons, selector switches and key-selector switches, pilot lights.
- Single switches with NO or NC contacts and double switches with NO contacts, one or two speeds, with electrical interlock to prevent simultaneous operation of opposite functions.
- Available with customized labels and enclosures with different size holes.

CERTIFICATIONS

- CE marking and EAC certification.

Fill in the "request form" for accurate product configuration.

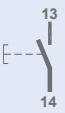
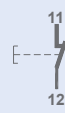
CERTIFICATIONS

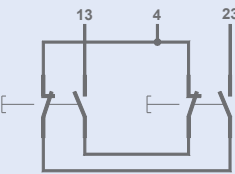
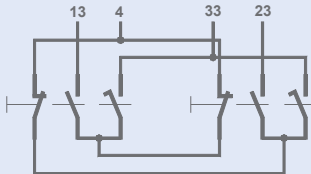



| | |
|------------------------------------|--|
| Conformity to Community Directives | 2014/35/UE Low Voltage Directive |
| | 2006/42/CE Machinery Directive |
| Conformity to CE Standards | EN 60204-1 Safety of machinery - Electrical equipment of machines |
| | EN 60947-1 Low-voltage switchgear and controlgear |
| | EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices |
| | EN 60529 Degrees of protection provided by enclosures |
| Markings and homologations | EN 418 Safety of machinery - Emergency stop equipment, functional |
| | CE EAC |

GENERAL TECHNICAL SPECIFICATIONS


| | |
|------------------------|---|
| Ambient temperature | Storage -40°C/+70°C |
| | Operational -25°C/+70°C |
| Grado di protezione IP | Min. IP 43 - max. IP 65 depending on the joystick |
| Insulation category | Class II |
| Cable entry | Cable sleeve (Ø 14÷26 mm) |
| Operating positions | Any position |
| Weight | ~3.8 kg |

TECHNICAL SPECIFICATIONS OF THE SWITCHES






| Code | PRSL1000PI | PRSL1001PI |
|----------------------------|---|---|
| Utilisation category | AC 15 | |
| Rated operational current | 3 A | |
| Rated operational voltage | 250 Vac | |
| Rated thermal current | 10 A | |
| Rated insulation voltage | 500 Vac | |
| Mechanical life | 1x10 ⁶ operations | |
| Connections | Screw-type terminals | |
| Wires | 1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG) | |
| Tightening torque | 0.6 Nm | |
| Microswitch type | Double break, slow action | Double break, slow action |
| Contacts | 1NO | 1NC |
| Scheme |  |  |
| Markings and homologations | CE cULus EAC | |

| | | |
|----------------------------|--|---|
| Code | PRSL1002PI | PRSL1003PI |
| Utilisation category | AC 15 | |
| Rated operational current | 3 A | |
| Rated operational voltage | 250 Vac | |
| Rated thermal current | 10 A | |
| Rated insulation voltage | 500 Vac | |
| Mechanical life | 1x10 ⁶ operations | |
| Connections | Screw-type terminals | |
| Wires | 1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG) | |
| Tightening torque | 0.6 Nm | |
| Microswitch type | Double switch, 1 speed | Double switch, 2 speeds |
| Contacts | 2NO+common | 3NO+common |
| Scheme |  |  |
| Markings and homologations |    | |

TECHNICAL SPECIFICATIONS OF THE LAMP HOLDERS

| | |
|----------------------------|---|
| Code | PRSL1004PI |
| Maximum voltage | 125 V |
| Maximum power | 2.6 W |
| Lamp type | T5.5K 22 mm |
| Connections | Screw-type terminals |
| Wires | 1x2.5 mm ² , 2x1.5 mm ² |
| Tightening torque | 0.6 Nm |
| Markings and homologations |  |

TECHNICAL SPECIFICATIONS OF THE SWITCHES (JOYSTICK)

| | |
|------------------------------------|---|
| Code | PRVV0804PE |
| Utilisation category | AC 15 |
| Operating electrical usages | Inductive load 48 Vac/1 A 125 Vac/1 A 250 Vac/0.5 A 30 Vdc/1 A |
| | Resistive load 48 Vac/2 A 125 Vac/3 A 250 Vac/2 A 30 Vdc/3 A |
| Rated thermal current | 8 A |
| Rated insulation voltage | 1000 Vac |
| Mechanical life | 5x10 ⁶ operations |
| Connections | Screw-type terminals |
| Wires | 0.2 mm ² - 2.5 mm ² |
| Tightening torque | 0.5 Nm - 0.6 Nm |
| Microswitch type | Single break |
| Contacts | 1NC |
| Scheme |  |
| Markings and homologations |     |

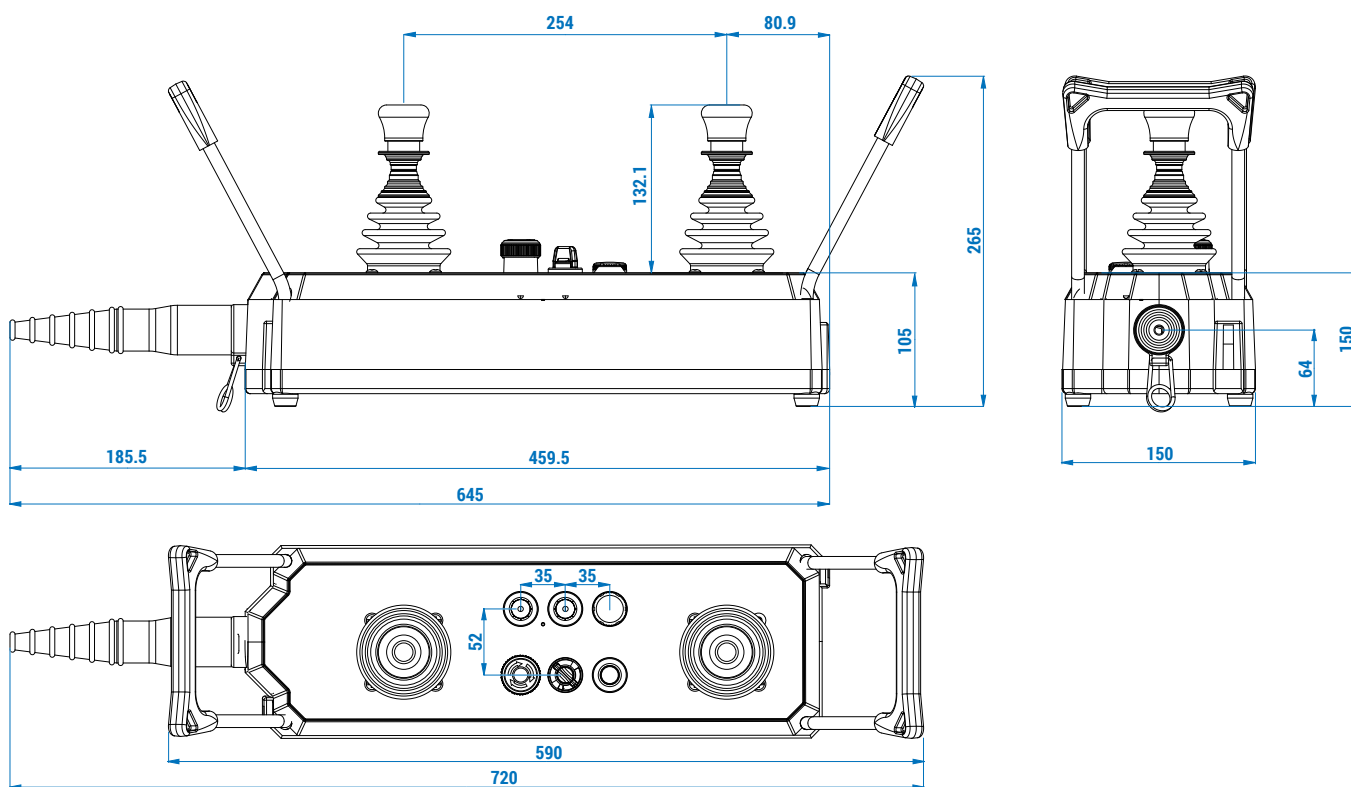
TECHNICAL SPECIFICATIONS OF THE BUTTONS (JOYSTICK)

| Code | PRVV5019PE | PRVV5020PE | PRVV5080PE |
|-----------------------------------|---|------------|--|
| Color | Green | Black | Green |
| Contact rated current | Resistive load 32 Vac/400 mA Resistive load 50 Vdc/100 mA Resistive load 125 Vac/125 mA | | Resistive load 28 Vdc/5 A Resistive load 125 Vac/125 mA |
| Contact resistance | 50 mΩ | | - |
| Mechanical life | 1x10 ⁶ operations | | 1x10 ⁶ operations |
| Contacts | 1NO | | 1NO |
| Markings and homologations | CE | | CE |

TECHNICAL SPECIFICATIONS OF THE POTENTIOMETERS (JOYSTICK)

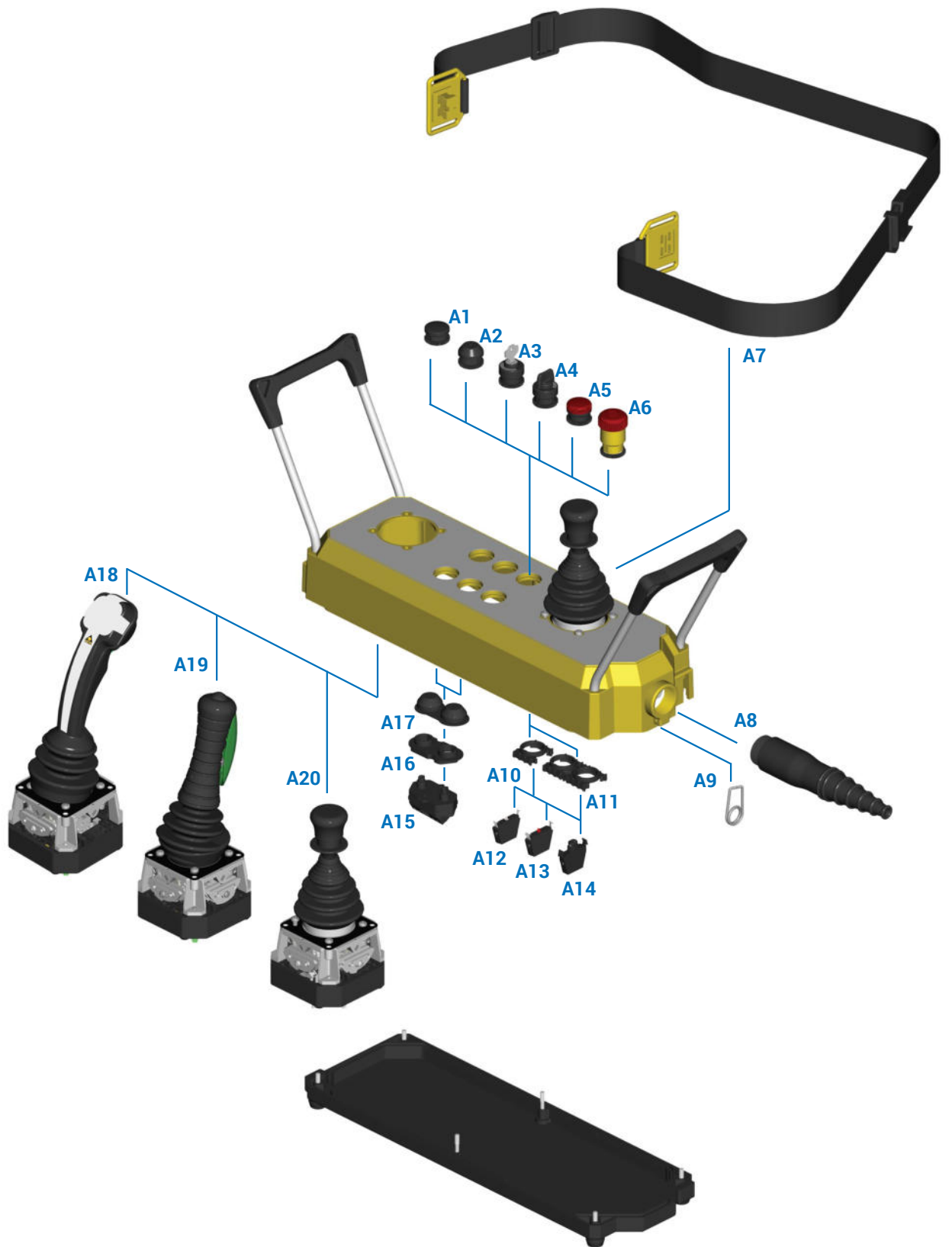
| Code | PRVV9020PE | PRVV9025PE | PRVV9035PE |
|--------------------------------------|-----------------------------|------------|------------|
| Ohmic value | 4.7 kΩ | 10 kΩ | 2.2 kΩ |
| Independent linearity (over AEA -3°) | ±0.25% | | |
| Life time | 3x10 ⁶ movements | | |
| Operational ambient temperature | -55°C/+125°C | | |
| Mechanical angle | 360° continuous | | |
| Actual Electrical Angle (AEA) | 355°±5° | | |
| Ohmic value tolerance | ±5% | | |
| Temperature drift | < 50 PPM/°C | | |
| Dissipation | 4 W | | |

OVERALL DIMENSIONS (mm)



ASSEMBLY DRAWING







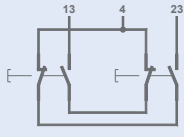
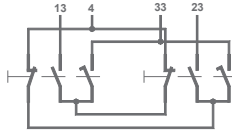
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

Refer to the following tables for descriptions of components: "Switches", "Actuators", "Pilot lights", "Selector switches", "Mushroom pushbuttons", "Joysticks" and "Accessories".

COMPONENTS


Switches

| Ref. | Drawing | Description | Scheme | Code |
|------|---|------------------------------------|--|------------|
| A12 |  | 1NO switch |  | PRSL1000PI |
| A13 |  | 1NC switch |  | PRSL1001PI |
| A14 |  | Lamp holder | - | PRSL1004PI |
| A15 |  | 1 speed, 2NO+common double switch |  | PRSL1002PI |
| | | 2 speeds, 3NO+common double switch |  | PRSL1003PI |



Actuators

| Ref. | Drawing | Description | Code |
|------|---|-------------------------------------|------------|
| A1 |  | Blanking plug | PRSL1023PI |
| A2 |  | Single pushbutton | PRTS000001 |
| A16 |  | Holding plate for double pushbutton | PRSL8737PI |
| A17 |  | Double pushbutton with rubber | PRTD000001 |


Pilot lights

| Ref. | Drawing | Color | Code |
|------|---|--------|------------|
| A5 |  | Red | PRSL1012PI |
| | | Yellow | PRSL1013PI |
| | | Green | PRSL1014PI |

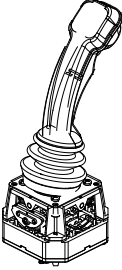
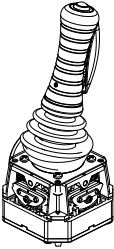
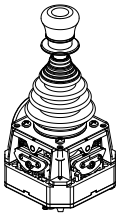
Selector switches

| Ref. | Drawing | Positions | Spring return | Maintained positions | Pull-out position | Code |
|------|---|-----------|---------------|----------------------|-------------------|------------|
| A3 |  | 0/1 | | X | 0 | PRSL1017PI |
| | | 0/1 | X | | 0 | PRSL1024PI |
| A4 |  | 0/1 | X | | | PRSL1015PI |
| | | 0/1 | | X | | PRSL1016PI |
| | | 1/0/2 | X | | | PRSL1026PI |
| | | 1/0/2 | | X | | PRSL1027PI |

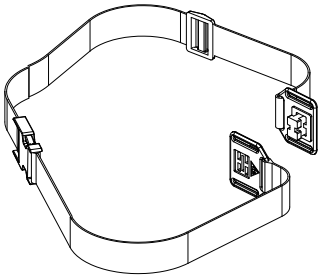
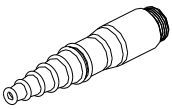



Mushroom pushbuttons

| Ref. | Drawing | Description | Code |
|------|---|--|------------|
| A6 |  | Latched mushroom pushbutton for emergency stop | PRSL1009PI |

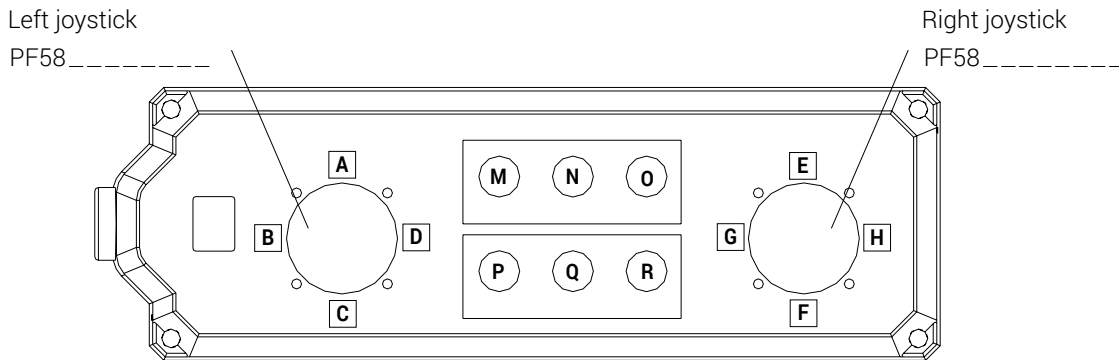
Joysticks

| Ref. | Drawing | Description | Code |
|------|---|--------------------------------------|---|
| A15 |  | Romeo Joystick with ergonomic handle | PF58_----- Refer to joystick Romeo documentation |
| A16 |  | Romeo Joystick with handle | PF58_----- Refer to joystick Romeo documentation |
| A17 |  | Romeo Joystick with knob | PF58_----- Refer to joystick Romeo documentation |

Accessories

| Ref. | Drawing | Description | Code |
|------|---|--------------------------------|------------|
| A7 |  | Shoulder strap | PRSL0161PE |
| A8 |  | Cable sleeve | PRSL0145PE |
| A9 |  | Hook | PRGA0001PE |
| A10 |  | Holding plate for 3 switches | PRSL8739PI |
| A11 |  | Holding plate for 3+3 switches | PRSL8736PI |

ROMEO-PK - REQUEST FORM FOR JOYSTICK STATION



Control elements and switches

| Control element | Switches |
|-----------------|----------|
| M _____ | _____ |
| N _____ | _____ |
| O _____ | _____ |
| P _____ | _____ |
| Q _____ | _____ |
| R _____ | _____ |

Joystick label

| Text |
|----------------|
| A _____ |
| B _____ |
| C _____ |
| D _____ |
| E _____ |
| F _____ |
| G _____ |
| H _____ |

Control elements label

| Symbol | Label color | Text |
|----------------|-------------|-------|
| M _____ | _____ | _____ |
| N _____ | _____ | _____ |
| O _____ | _____ | _____ |
| P _____ | _____ | _____ |
| Q _____ | _____ | _____ |
| R _____ | _____ | _____ |

Control elements

- ① PRSL1009PI Mushroom pushbutton
- ② PRTS000001 Single pushbutton
- ③ PRTD000001 Double pushbutton
- ④ PRSL1023PI Blanking plug
- ⑤ PRSL1012PI Red pilot light
- ⑥ PRSL1013PI Yellow pilot light
- ⑦ PRSL1014PI Green pilot light
- ⑧ PRSL1015PI Selector switch 0/1 spring return
- ⑨ PRSL1016PI Selector switch 0/1 maintained positions
- ⑩ PRSL1026PI Selector switch 1/0/2 spring return
- ⑪ PRSL1027PI Selector switch 1/0/2 maintained positions
- ⑫ PRSL1017PI Key selector switch 0/1 maintained positions
- ⑬ PRSL1024PI Key selector switch 0/1 spring return











Single switches

- ⑳ PRSL1000PI 1NO
- ㉑ PRSL1001PI 1NC
- ㉒ PRSL1004PI Lamp holder

Double switches

- ㉓ PRSL1002PI 1 speed
- ㉔ PRSL1003PI 2 speeds

Symbols and colors of control element label

| | | | |
|---|--|---|--|
| ③①  GREEN | ③②  GREEN | ③③  YELLOW | ③④  RED |
| ③⑤  YELLOW | ④①  GREEN | ④②  YELLOW | ④③  RED |
| ④④  WHITE | ④⑤  BLACK | | |

Position of cable sleeve

- Right
- Left

Instructions

- Write the code number of the left and right joysticks required.
- Write the number or the code corresponding to the control elements and switches (max 3) required in each position.
- Write the text required on the label for each position of the joystick.
- Write the symbol, the color and the text required on the label for each control element.
- Tick the appropriate box to show where the cable sleeve must be assembled.

