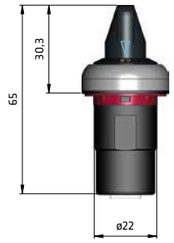
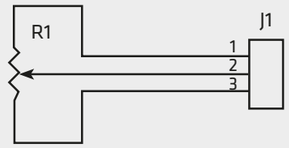
➔ Full Potentiometer enclosed in a single block standard 22 mm diameter, plug & play, ready to be fixed on an electrical panel.
➔ The potentiometer is provided in different versions depending on the ohmic resistance required with a 3-poles terminal board with an easy push-in type spring-operated connection.
is technology allows a very handy quick wiring procedure, since the wire just needs to be inserted into the appropriate hole in order to be secured and to establish the electrical connection.

Marking CE




| BLACK LINE | NICKEL LINE |
|---|---|
| PPPTNBL1K | PPPTNNL1K |
| PPPTNBL2K5 | PPPTNNL2K5 |
| PPPTNBL5K | PPPTNNL5K |
| PPPTNBL10K | PPPTNNL10K |
| PPPTNBL50K | PPPTNNL50K |
| PPPTNBL100K | PPPTNNL100K |
| PPPTNBL500K | PPPTNNL500K |

| TECHNICAL DATA | |
|---|---|
| Protection class | IP67 (IEC 60529)<br>IP69K (ISO 20653) |
| Ambient temperature | -40°C +90°C |
| Mechanical endurance | 75000 operations cycles |
| Resistance range | Linear 1kΩ k to 0.5MΩ |
| Tolerance | Linear: 10% |
| Linearity (tipical) | ± 5 % independent |
| End resistance | 4Ω maximum each end |
| Power rating | 0.5 W at 70°C - 0 W at 120°C |
| Effective rotation | 270° ± 10° without rotary switch<br>240° ± 10° with rotary switch |
| Contact resistance variation | 1,5% of total resistance - 3% of total resistance |
| Max continuous working voltage | 350 VAC across end terminals, but within power rating |
| Electrical scheme |  |
| Ohmic resistance | 001K 1000 Ω<br>02K5 2500 Ω<br>005K 5000 Ω<br>010K 10,000 Ω<br>050K 50,000 Ω<br>100K 100,000 Ω<br>500K 500,000 Ω |
| Standard reference | IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1 |
| Directive reference | Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC. |



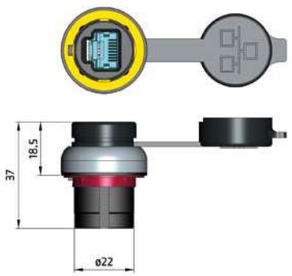


## RJ45 DOUBLE SOCKET

➔ RJ45 connector in a standard 22 mm diameter block “plug & play”.
➔ It makes possible to bring the Ethernet networks trough an electrical panel without open it.
➔ The protection rubber cap integrated remains joined to the device to avoid to be lost and prevents any water or dirt from penetrating inside.

Marking CE

| BLACK LINE | NICKEL LINE |
|---|---|
| PP2RJ45BL | PP2RJ45NL |




| TECHNICAL DATA | |
|---|---|
| Connection | RJ45 |
| Protection degree | IP67 (IEC 60529) |
| Ambient temperature | -25°C +75°C |
| Standard reference | IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1 |
| Directive reference | Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC. |

## USB 2.0 & 3.0 DOUBLE SOCKETS

➔ USB socket in a standard 22 mm diameter block “plug & play”.
➔ It makes possible to transfer data and electricity through an electrical panel without open it.
➔ The protection rubber cap integrated remains joined to the device to avoid to be lost and prevents any water or dirt from penetrating inside.

Marking CE

| BLACK LINE | NICKEL LINE |
|---|---|
| PP2USB20BL | PP2USB20NL |
| PP2USB30BL | PP2USB30NL |


| TECHNICAL DATA | |
|---|---|
| Connection | USB 2.0 - USB 3.0 |
| Protection degree | IP67 (IEC 60529) |
| Ambient temperature | -25°C +75°C |
| Standard reference | IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1 |
| Directive reference | Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC. |

**USB 2.0**
The USB 2.0 socket takes advantage of the standard data transfer speed. It's the most frequently used on the market and furthermore this option offersthe best value for money.

**USB 3.0**
The USB 3.0 is the latest generation of data transfer on the market. This solution offer the maximum data transfer speed and the socket is backward compatible with previous USB connectors.