Fixing ring		Packs of 20 pcs.
	Article	Description
	VE GF121A	Technopolymer fixing ring
	Article	Description
	VE GF720A	Metal fixing ring

Fixing key



Article	Description
VE CH121A1	Technopolymer fixing key for VE GF•••• fixing rings

Ø 22 ... Ø 30 mm adapter

Packs of 10 pcs.



Technical data:			
Body and ring material:	technopolymer	Tightening torque:	2 2.5 Nm
Protection degree:	IP67 and IP69K	Dowel can be removed with a	simple screwdriver
Article	Description		
VE GF151A	Adapter with ring for panel fixin EN 60947-5-1	g for Ø 22 devices on Ø 30 hole	es compliant with

Not applicable on E2 •PD•••••• - E2 •PT••••• - E2 •PT••••• double, triple, and quadruple buttons. Not applicable in presence of shaped rings, label holders, guards or protection caps. It does not alter the IP protection degree of the associated device.

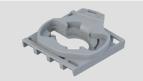
Mounting adapter

Packs of 10 pcs.



Article	Description
E2 1BAC11	3-slot mounting adapter for E2 CP contact blocks and E2 LP LED units
E2 1BAC12	3-slot mounting adapter, oriented, for E2 CP contact blocks and E2 LP LED units

Not combinable with E2 •PQ•••••• quadruple buttons and E2 •MA••••• joysticks.



Article	Description
E2 1BAC21	4-slot mounting adapter for E2 CP contact blocks
E2 1BAC22	4-slot mounting adapter, oriented, for E2 CP contact blocks

Combinable only with selectors E2 •SE••••••, key selector switches E2 •SC•••••, buttons E2 •PU•••••, double buttons E2 •PD•••••, emergency buttons E2 •PE••••, configured in the appropriate versions for 4-slot adapter. Combinable with E2 •PQ•••••• quadruple buttons and E2 •MA••••• joysticks.

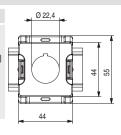
Adapter for DIN rail

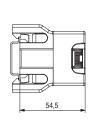
Packs of 10 pcs.



Article	Description	
VE AD3PF9A0	Support with Ø22 hole for fixing on DIN rail of the signalling and control devices of the EROUND line	

Not suitable for joysticks and quadruple buttons



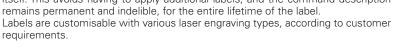


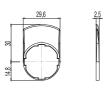


Labels with laser engraving



Labels for single EROUND line devices, adjustable by 90° in 90° increments. Available in black, grey, and yellow; the engraving is via laser, directly on the label itself. This avoids having to apply additional labels, and the command description remains permanent and indelible, for the entire lifetime of the label.





Article	Description	Pieces/pack.
VETF32H9700	Grey label, without engraving	10
VETF12H1700	Black label, without engraving	10
VETF12H5700	Yellow label, without engraving	10
VETF32H91••	Grey label, with indelible laser engraving	1
VETF12H12••	Black label, with indelible laser engraving	1
VETF12H51••	Yellow label, with indelible laser engraving	1

It does not alter the IP protection degree of the associated device.

Not applicable on E2 •PD••••••, E2 •PT•••••, E2 •PQ••••• double, triple, and quadruple buttons.

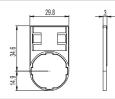
For ordering engraved labels:

Replace the dots •• in the article codes with the engraving code reported on the table at page 147. Example: Black label with "STOP" engraving. VE TF12H12•• → VE TF12H1203

Label holder



Label holders for single device, adjustable by 90° in 90° increments. The switch labels of other manufacturers can be used (for example: 3M article KE-7270-2691-3 or GRAFOPLAST article SITM612X) as long as they have the following dimensions: base 27 +0/-0.4 mm, height 18+0/-0.4 mm, thickness 0.8 ± 0.4 mm.



Article	Description	Pieces/pack.
VE PT32A00A0	Label holder provided with shaped hole, for 18x27 mm label, without labe	l 10
VE PT32A10A0	Label holder provided with shaped hole, for 18x27 mm label , and transparent protection label without engraving	10
VE PT32A09A•••	Label holder provided with shaped hole, for 18x27 mm label , and glossy aluminium-coloured label with black engraving	1

It does not alter the IP protection degree of the associated device.

Not applicable on E2 •PD•••••••, E2 •PT••••••, E2 •PQ•••••• double, triple, and quadruple buttons. Not applicable in presence of shaped rings, adapters from Ø 22 to Ø 30 mm, guards or protection caps.

For ordering engraved labels:

Replace the dots ••• in the article codes with the engraving code reported on the table at page 147. Example: Label holder provided with label, "STOP" engraving. VE PT32A09A••• → VE PT32A09AGB0

Plates



Article	Description
VE 183Δ / /0	Protective plate for VE PT label holders without engraving. Packs of 100 pcs.

Rectangular plate 18x27 mm, thickness 0.4 mm, transparent anti-glare polycarbonate. Ideal for protecting the label below



Article	Description
VE TR4A970	Label for VE PT label holders without engraving, for cutter or laser engraving. Packs of 100 pcs.
VE TR4A91•••	Label for VE PT label holders with black indelible laser engraving.

Rectangular label 18x27 mm, thickness 0,8 mm, white aluminium RAL 9006

For ordering engraved labels:

Replace the dots ••• in the article codes with the engraving code reported on the table at page 147. Example: Label with "STOP" engraving. VE TR4A91••• → VETR4A91GB0

Shaped ring



Article	Description	Pieces/pack.
VE GP12H1A	Shaped ring for single device	50
VE GP12L1A	Shaped ring for E2 •PD•••••• - E2 •PT•••••double and triple button	50
VE GP12M1A	Shaped ring for quadruple button E2 •PQ••••••	10

Not applicable in presence of label holders, adapters from Ø 22 to Ø 30 mm, guards or protection caps.

It does not alter the IP protection degree of the associated device.

Packs of 10 pcs. **Protection cap**



Technical data: Material: silicon suitable for contact with food Protection degree:

IP67 -40°C ... +80°C

Ambient temperature: -40°C ... +80°C Ideal for dusty food environments or in presence of water and sand.

radar for dusty rood environments of in presence of water and sand.	
Article	Description
VE CA1A1	Protective cap for single flush button (panel width from 1 to 5 mm)
VE CA1B1	Protection cap for single projecting button (panel width from 1 to 5 mm)
VE CA1C1	Protection cap for double and triple projecting buttons (panel width from 1 to 6 mm)
VE CA1D1	Protection cap for double flush button (panel width from 1 to 6 mm)

Not applicable in presence of shaped rings, label holders, adapters from Ø 22 to Ø 30 mm or protection guards.

Connection block Packs of 10 pcs.



Connection blocks without electrical contacts and dimensions identical to those of the contact blocks. If combined with the VE DL series luminous disc it can be mounted without using terminals or crimping.

Article	Description
VE BC2PV1	Panel mounting connection block
VE BC2FV1	Connection block for base mounting

Closing cap Packs of 10 pcs.



Technical data: Body and ring material: technopolymer IP67 and IP69K Protection degree: 2 ... 2.5 Nm Tightening torque:

Article	Description
E2 1TA1A110	Black closing cap for Ø 22 mm holes

Dust protection Packs of 50 pcs. Description Article



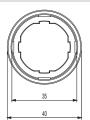
VE PR3A70

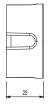
Transparent dust protection for E2 series contact blo	icks. Suitable for all panel mounting
contact blocks.	icks. Suitable for all parier mounting

Windowed protection guard



Article	Description
VE GP32A5A	Cylindrical yellow protection guard with 4 windows





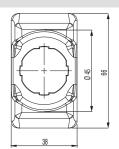
It does not alter the IP protection degree of the associated device.

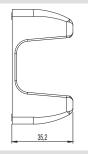
Not applicable in presence of shaped rings, label holders, adapters from \varnothing 22 to \varnothing 30 mm or protection caps.

Open protection guard



Article
VE GP32F5A



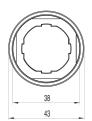


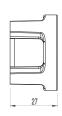
It does not alter the IP protection degree of the associated device.

Not applicable in presence of shaped rings, label holders, adapters from \varnothing 22 to \varnothing 30 mm or protection caps.

Cylindrical protection guard







It does not alter the IP protection degree of the associated device.

Not applicable on emergency buttons of the E2 •PE••••• series.

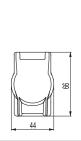
Not applicable in presence of shaped rings, label holders, adapters from \varnothing 22 to \varnothing 30 mm or protection caps.

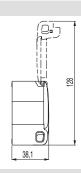
Lockable guard

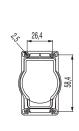


Article	Description
VE GG3EA7A	Lockable guard complete with 4 screws (for panel thicknesses between 1 and 3.5 mm)

Ideal for protecting devices which must not be actuated involuntarily.



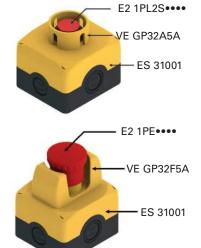




It does not alter the IP protection degree of the associated device.

Not applicable with attached label holder.

Application examples of guards







ENGRAVINGS table (text) Code Text Code Text Code Text Code Text IT0 **ARRESTO** GB0 **STOP** FR0 ARRÊT DE0 **HALT** IT1 AVVIO GB1 **START** FR1 **MARCHE** DE1 **START** IT2 GB2 FR2 DE2 **CHIUSO CLOSE** FERMÉ ZU IT3 SU GB3 UP FR3 MONTÉE DE3 AUF IT4 GIÚ GB4 **DOWN** FR4 **DESCENTE** DE4 AΒ IT5 **SPENTO** GB5 OFF FR5 DE₅ ARRÊT AUS IT6 GB6 FR6 MARCHE DE6 **ACCESO** ON **EIN** IT7 **IN SERVIZIO** GB7 RUN FR7 **EN SERVICE** DE7 **BETRIEB** IT8 **ERRORE** GB8 **FAULT** FR8 **PANNE** DE8 STÖRUNG IT9 GB9 FR9 **ESSAI** DE9 **PRÜFUNG TFST TEST** IT10 FR10 DE₁₀ SPENTO ACCESO **GB10** OFF ON ARRÊT MARCHE **AUS EIN** IT11 **GB11** MAN. AUTO FR11 MAN. AUTO DE11 MAN. AUTO HAND AUTO IT12 **GB12** MAN. 0 AUTO FR12 MAN. 0 AUTO DE12 HAND 0 AUTO MAN. 0 AUTO IT13 MARCIA GB13 DRIVE FR13 **MARCHE** DE13 **ANTRIEB** IT14 RIAVVIA **GB14 RESET** FR14 REARM. **DE14 ENTSPERREN** IT15 AVANTI GB15 **FORWARD** FR15 **AVANT** DE15 VORWÄRTS FR16 IT16 GB16 DE16 **INDIETRO REVERSE** ARRIÈRE RÜCKWÄRTS IT17 **GB17** FR17 **AUMENTA RAISE MONTER** DE17 HEBEN IT18 **DIMINUISCI GB18** LOWER FR18 **DESCENDRE** DE18 SENKEN IT19 **GB19** FR19 **DE19 SINISTRA** LEFT **GAUCHE** LINKS **GB20** FR20 DE20 IT20 **DESTRA RIGHT** DROITE **RECHTS** IT21 **FRENO GB21 BRAKE** FR21 FERMER/OUVRIR DE21 **BREMSEN** IT22 ALTO GB22 HIGH FR22 **HAUT** DE22 **HOCH** IT23 BASSO GB23 LOW FR23 BAS DE23 **NIEDRIG** IT24 **VELOCE** GB24 **FAST** FR24 **RAPIDE** DE24 **SCHNELL** IT25 GB25 FR25 DE25 **LENTO** SLOW LENT LANGSAM IT26 GB26 FR26 PLUS RAPIDE DE26 PIÚ VELOCE **FASTER SCHNELLER** IT27 FR27 DE27 **GB27** PIÚ LENTO **SLOWER** PLUS LENT LANGSAMER IT32 **APRIRE** GB32 **OPEN** FR32 **OUVRIR** DE32 ÖFFNEN IT63 **GB63** FR63 DE63 CHIAMATA CALL APPEL ANRUF IT64 **GB64** FR64 DE64 **OCCUPATO** OCCUPÉ **OCCUPIED** BESETZT IT99 **GB99** FR99 **DE99** ARRÊT D'URGENCE **ARRESTO EMERGENCY STOP NOT-AUS**

Other engravings on request

D'EMERGENZA

ENGRAVINGS table (symbols)

Code	Standard	Symbol
L1	IEC 60417-2	0
L2	IEC 60417-2	
L3	-	
L4	-	III
L7	-	†
L8	-	Ţ
L9	-	←
L10	-	→
L11	IEC 60417-2	+
L12	IEC 60417-2	_
L14	IEC 60417-2	-
L15	-	R
L16	IEC 60417-2	٨
L17	ISO 7000	Zm/
L18	ISO 7000	1
L19	-	0
L20	-	0
L21	-	I 0 II
L22	-	1 0
L24	-	P
L25	-	↓ †
L27	ISO 7000	@
L30	-	4
L31	-	=
L54	-	4
L59	-	\oplus
L60	-	A
L61	-	⊚ ⁄
L65	-	1
L66	-	2
L67	-	3
L68	-	4
L69	-	5
L70	-	6
I 71	_	7

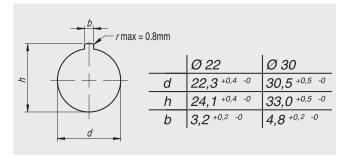
Code	Standard	Symbol
L72	-	8
L73	-	9
L74	-	0
L76	-	\Leftrightarrow
L77	-	\Leftrightarrow
L78	-	
L83	-	≯ ∢
L84	-	∢ ▶
L86	-	
L91	-	*
L96	-	((●))
L130	-	100%
L140	-	€
L142	ISO 7000	
L143	ISO 7000	∏
L145	-	b
L146	ISO 7000	\bigcirc
L147	ISO 7000	\$ \$
L148	-	<u> </u>
L153	-	1
L157	-	AIR
L161	-	, Em
L162	-	~~
L165	-	, <u>0</u>
L170	-	‡
L172	-	(
L188	-	//
L213		·×;-
L226	-	(°)
L227	EN 1501	大
L230	-	
L236	-	, w
L240	-	۵

Code	Standard	Symbol
L241	-	V
L242	-	$/\pi$
L243	-	V
L244	-	\f
L245	-	(_)
L246		ال
L247	-	\mathcal{D}_{1}
L248	-	M
L249	-	AR.
L250	-	POWER
L251	-	=
L252	-	
L253	-	
L254	-	
L260	-	4
L262	-	← 0 →
L276	-	START STOP
L277	-	***
L278	-	
L279		Di.
L280	-	B RZ
L287		\oplus
L293	-	
L295	-	0
L304	-	A
L305	-	Ci .
L311	-	→ ←
L312	-	\longleftrightarrow
L315	-	24V=
L316	-	\Diamond
L317	-	A
L319	-	<u>↓</u>

Other engravings on request

Utilization requirements for EROUND line

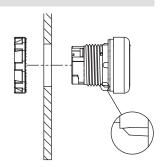
Panel drilling according to EN 60947-5-1



Seal gasket

Thanks to its design, the seal gasket ensures a pre-fixing on the panel.

This allows to mount the ring without having to hold the device in position.

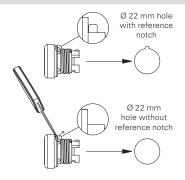


Reference dowel

The mounting reference dowel on the external diameter of all EROUND line devices enables perfect device alignment and mounting on the panel, while avoiding rotations.

In case of use on holes without reference notches, simply remove the dowel with a slight leverage effect using a screwdriver, making sure that the seal gasket does not get damaged.

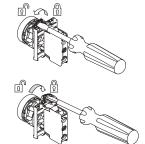
The removal of the reference dowel, is not advisable for the selectors (series E2 •SE, E2 •SL, E2 •SC) and emergency buttons (series E2 •PE) with rotary release, as these devices are subject to rotary-type actuation.



Device connection to mounting adapter

After its installation on the panel using the special ring, the control device can be fixed to the mounting adapter by turning the locking lever. The lever reports the free position (lock open) and locked position (lock closed) indications.

The locking lever rotation can be made smoother by using a flat-head screwdriver.

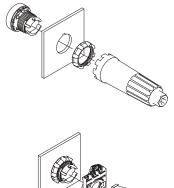


Panel fixing

The control and signalling devices have to be fixed on the rear of the panel with a fixing ring. This has to be tightened with the special fixing key which is supplied as an accessory.

The tightening torque for a correct fixing must be between 2 and 2.5 Nm.

Once the fixing ring has been tightened, the mounting adapter and then the contact blocks or LED units can be mounted on the panel.

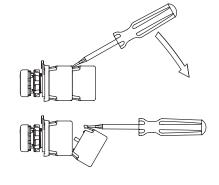


Mounting of contact blocks and LED units

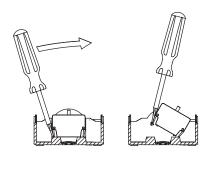
Contact blocks and LED units are provided with two snap-in mounting flaps that ensure a stable fixing between them and the mounting adapter (in the panel mounting version), or between them and the base of the housing (in the base mounting version). The panel contact blocks can be connected to each other, up to three, in observance of the limits specified for each actuator in the respective chapter. Contact blocks and LED units can be quickly disassembled by using a flat-head screwdriver to leverage on the connection flaps.



Release of the contact block from the base



Release of the contact block from another unit

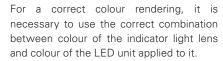


Release of the contact block from the base



Lenses for E2 indicator lights

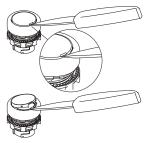
The E2 indicator lights are provided with interchangeable lenses in different colours. The lenses can be removed and mounted by simply turning them clockwise and anticlockwise respectively, without using tools.





Lenses for buttons and illuminated buttons

The buttons and the illuminated buttons feature replaceable lenses. To remove the lenses, leverage them with a pointed object near the reference notch on the external diameter of the lens itself.



Screw caps insertion / removal

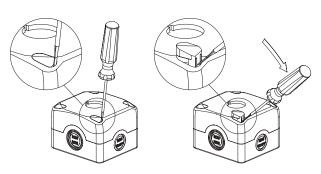
The cover caps supplied for housings of the EROUND series make it possible to close the screws seats, preventing thus the accumulation of dirt and tampering.

These caps are connected to surfaces of the housing. This creates thus a monolithic block showing no visible screws, making it aesthetically pleasing too.



The caps engage to the cover with a simple pressure until the flexible flap snaps in.

For their removal it is necessary to insert the point of a tool (e.g. a small screwdriver) in the special slot on each cap and to leverage on the coupling flap to open it.



General requirements

The product was designed to be installed on switching cabinets or housings containing electrical circuits. All electrical components and devices of the EROUND series that are to be installed inside switching cabinets or enclosures (e.g. E2 CP, E2 CF, E2 LP, E2 LF), are not provided with suitable protections against: water, high quantities of dust, condensation, humidity, steam, corrosive agents, explosive gases, flammable gases or other polluting agents. The protection degree of switching cabinets or enclosures shall ensure the necessary protection to the electrical components of the EROUND series inside them, depending on the application area.

Using the devices

- All devices of the EROUND series are hand operated.
- Do not apply excessive force to the device once it has reached the end of its actuation travel.
- Do not exceed the maximum actuation travel.
- Before installation, make sure the device is not damaged in any part.
- Do not disassemble or try to repair the device, in case of defect or fault replace the entire device.
- In case the device is deformed or damaged it must be entirely replaced. Correct operation cannot be guaranteed when the device is deformed or damaged.
- Always attach the following instructions to the manual of the machine in which the device is installed.
- These operating instructions must be kept available for consultation at any time and for the whole period of use of the device.

Do not use in following environments:

- Environments where dust and dirt can cover the device and by sedimentation stop its correct working.
- Environment where sudden temperature changes cause condensation.
- Environments where coatings of ice may form on the device.
- Environments where the application causes knocks or vibrations that could damage the device.
- In environments containing explosive or inflammable gases or dusts.
- In environments containing strongly aggressive chemicals, where the products used coming into contact with the device may impair its physical or functional integrity.

Limits of use

- Use the devices following the instructions, complying with their operation limits and the standards in force.
- The devices have specific application limits (min. and max. ambient temperature, mechanical endurance, protection degree, etc.) These limits are met by the different devices only if considered individually and not if combined with each other. For further information contact our technical department.
- The utilization implies knowledge of and compliance with following standards: IEC 60204-1, IEC 60947-5-1, ISO 12100.
- Please contact our technical department for information and assistance (phone +39.0424.470.930 / fax +39.0424.470.955 / e-mail tech@pizzato.com) in the following cases:
- cases not mentioned in the present utilization requirements.
- In nuclear power stations, trains, airplanes, cars, incinerators, medical devices or any application where the safety of two or more persons depend on the correct operation of the devices.

Utilization requirements for EROUND line

Wiring and installation

- Installation must be carried out by qualified staff only.
- Observe minimum distances between devices (if provided).
- Observe the tightening torques.
- Keep the electrical load below the value specified by the utilization category.
- Disconnect the power before to work on the contacts, also during the wiring.
- Do not paint or varnish the devices.
- Devices can only be installed on perforated surfaces with a thickness of between 1 mm and 6 mm that comply with the IEC 60947-5-1 standard.
- The protection degree and the correct operation are only guaranteed if the product is installed on a level and smooth surface and if the diameter of the holes is compliant with the IEC 60947-5-1 standard.
- After and during the installation do not pull the electrical cables connected to the contact blocks. If excessive tension is applied to the electrical cables, the contact blocks could detach from the actuator.
- During the coupling and uncoupling of the contact blocks from the mounting adapter or from the base, do not deform or put excessive stress on the coupling flaps. A possible deformation of the flaps could cause the detachment of the contact blocks from their mounting adapter.
- The housings in the EA and ES series are fitted with knock-out holes for the passage of electrical cables. Open these holes using a suitable tool to avoid damaging the housing. Refrain from using housings damaged or cracked as a result of erroneous manoeuvres performed when opening the knock-out holes. After opening the hole, remove any plastic residues and insert a cable gland (or similar device) into the hole with a degree of protection equal or superior to that of the housing.
- After installation and before commissioning of the machine, verify:
- the correct operation of the device;
- the correct and full locking of the E2 1BAC mounting adapter to the device;
- the correct coupling of the contact blocks.
- Periodically check for correct device operation.
- Do not deform or modify the device for any reason.
- Before installation, make sure the device is not damaged in any part.
- Refrain from opening, disassembling or attempting to repair the device and replace it immediately if it appears to be damaged.
- Should the installer be unable to fully understand the utilization requirements, the product must not be installed and the necessary assistance may be requested.

Additional requirements for safety applications

Provided that all previous requirements for the devices are fulfilled, for installations with operator protection function additional requirements must be observed.

- The utilization implies knowledge of and compliance with following standards: IEC 60204-1, IEC 60947-5-1, EN ISO 13849-1, EN 62061, EN ISO 12100.
- In emergency buttons the safety circuit must be connected to the .1-.2 NC contacts with the actuator in rest position. The auxiliary contacts NO .3-.4 must be used in signalling circuits only.
- The protection fuse (or equivalent device) must be always connected in series with the NC .1-.2 contacts of the safety circuit.
- Periodically verify the correct working of the safety devices; the periodicity of this verification is settled by the machine manufacturer based on the machine danger degree and it does not have to be less than one a year.
- After installation and before commissioning of the machine, verify:
- the correct operation of the device;
- the correct and full locking of the E2 1BAC mounting adapter;
- the correct coupling of the contact blocks.
- For the E2 •PEBZ•••• emergency buttons with key release do not leave the key inserted. A possible sudden activation of the emergency button with the key inserted could cause injuries to the operator.
- All the safety devices installed on the machine (e.g. emergency button, stop button, automatic/manual mode selector etc.) have a limited endurance. Although still functioning, after 20 years from the date of manufacture the device must be replaced completely. The date of manufacture is placed next to the product code, on the label attached to the packing. In case of particularly adverse weather conditions, the endurance of the device can be drastically reduced over time. Regularly check that the safety devices are working properly and if required, replace them, even prior to the above-mentioned expiry date.
- The device is provided with external marking on its packaging. The marking includes: Producer trademark, product code, batch number and date of manufacture. The batch's first letter refers to the month of manufacture (A=January, B=February, etc.). The second and third digits refer to the year of manufacture (19=2019, 20=2020, etc.).
- If the device is used for safety applications, inadequate installation or tampering can cause people serious injuries and even death.
- These devices must not be bypassed, removed, turned or disabled in any other way.
- If the machine where the device is installed is used for a purpose other than that specified by the producer, the device may not provide the operator with efficient protection.
- The safety category of the system comprising the safety device also depends on external devices and their connection. Check that the device is capable of performing the safety function envisaged by the risk analysis of the machine, as provided by EN ISO 13849-1.

Utilization requirements for PA, PX, PC series foot switches

General requirements

- The device is designed to be installed on industrial machineries.
- The installation must be performed only by qualified staff aware of the regulations in force in the country of installation.
- The device must be used exactly as supplied and properly wired.
- It is not allowed to disassemble the product and use only parts of the same, the device is designed to be used in its assembly. It is prohibited to modify the device, even slightly e.g.: replace parts of it, drill it, lubricate it, clean it with gasoline or gas oil or any aggressive chemical agents.
- The protection degree of the device refers to the electrical contacts only.
- Carefully evaluate all the polluting agents present in the application before installing the device, since the IP protection degree refers exclusively to agents such as dust and water according to EN 60529. Thus the device may not be suitable for installation in environments with dust in high quantity, condensation, humidity, steam, corrosive and chemical agents, flammable or explosive gas, flammable or explosive dust or other polluting agents.
- Some devices are provided with a housing with openings for connecting the electrical cables. To guarantee an adequate protection degree of the device, the opening that the wiring passes through must be protected against the penetration of harmful materials by means of an appropriate seal. Proper wiring therefore requires the use of cable glands, connectors or other devices with IP protection degree that is equal to or greater than that of the device.
- Store the products in their original packaging, in a dry place with temperature between -40° C and +70° C
- Failure to comply with these requirements or incorrect use during operation can lead to the damage of the device and the loss of the function performed by the device itself. This will result in termination of the warranty on the item and will release the manufacturer from any liability.

Using the devices

- Before use, check if the national rules provide for further requirements in addition to those given here.
- Avoid contact of the device with corrosive fluids.
- Do not stress the device with bending and torsion.
- Do not apply excessive force to the device once it has reached the end of its actuation travel.
- Do not exceed the maximum actuation travel.
- If specific operating instructions exist for a device (supplied or downloadable from www.pizzato.com), they must always be included with the machine manual and be available for the entire service life of the machine.
- If the pedal has one or more metallic tubes, with a housing equipped with Eround devices connected to their ends, the utilization requirements indicated on pages 149 to 151 of this catalogue apply.

Wiring and installation

- Installation must be carried out by qualified staff only.
- Use of the device is limited to function as a control switch.
- The product can only be used on flat surfaces.
- Never use the device as support for other machine components (cable ducts, tubes, etc.)
- Keep the electrical load below the value specified by the utilization category.
- Disconnect the power before to work on the contacts, also during the wiring.
- Do not paint or varnish the devices.
- Before installation, make sure the device is not damaged in any part.
- During wiring comply with the following requirements:
 - Comply with the minimum and maximum sections of electrical conductors admitted by terminals.
 - Tighten the electrical terminals with the torque indicated in this catalogue.
 - Do not introduce polluting agents into the device as: talc, lubricants for cable sliding, powder separating agents for multipolar cables, small strands of copper and other pollutants that could affect the proper functioning of the device.
 - Before closing the device cover (if present) verify the correct positioning of the gaskets.
 - Verify that the electrical cables, wire-end sleeves, cable numbering systems and any other parts do not obstruct the cover from closing correctly or if pressed between them do not damage or compress the internal contact block.
 - For devices with integrated cable, the free end of the cable must be properly connected inside a protected housing. The electrical cable must be properly protected from cuts, impacts, abrasion, etc.
- Check that the device application meets the requirements described in paragraph "Do not use in following environments" and "Limits of use" on page 150.
- After installation and before commissioning of the machine, verify:
 - the correct operation of the device and all its parts;
 - the correct wiring and tightening of all screws.
- Perform the following sequence of checks before the machine is commissioned and at least once a year (or after a prolonged shutdown).
 - The pedal must run freely, and the actuation travel must be linear. No objects or foreign bodies may be present beneath the pedal, which would impede its actuation.
 - Check that the actuating force is compatible with factory defaults.
 - 3. Check that the safety lever is functioning correctly: it must not be possible to actuate the pedal, without first having lowered the safety lever (where present).
 - 4. Check that the locking mechanism of the pedal actuator (where present) is functioning correctly.
 - Check that the electrical connecting cable and associated cable gland are in good condition, and firmly attached to the device.
 - Check that, when the pedal is actuated, the machine behaves as expected.
 - 7. All external parts must be undamaged.
 - 8. If the device is damaged, replace it completely.
- Should the installer be unable to fully understand the utilization requirements, the product must not be installed and the necessary assistance may be requested.