

PRODUCT CATALOGUE



SEZ
DOLNÝ KUBÍN



K1

INDUSTRIAL SOCKETS AND PLUGS

VERSION 1.1

REVISED 05/2015



SEZ DK a.s. is a Slovak company that represents more than 65 – years history and tradition in development, production and sales of electroinstallation material. It employs more than 200 people and with the regular exports of its products to more than 25 countries, including Africa and Asia, it keeps the leading position in Central and Eastern Europe.

Company uses its own R&D as well as the tool-workshop with modern machines, that provide construction and production of injection moulds and tools. It offers these services for external clients too. SEZ DK a.s. has production technology for metal processing, its own galvanization to provide surface plating of metal parts and holds a high quality plastic injection technology for production of components up to the weight of 1,3 kg.

The offered product range is extremely wide, containing industrial plugs and sockets, distribution boxes, household switches and sockets, terminal clamps, installation boxes, cable glands, terminal components, terminal switches, wall and portable lights and ceramic lampholders, wall and flush-mounted distributors and installation pipes. All product groups have their own catalogues K1-K10.

The company is certified according to ISO 9001:2008 and ISO 14001:2004.





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INDUSTRIAL SOCKETS AND PLUGS

Our industrial plugs and sockets have been designed to connect electrical devices and consumers to low voltage in a broad spectrum of human activities. They are frequently applied in civil engineering, electric assembly sector, engineering industry, chemical and cosmetic industry, pharmaceutical industry and health service, agriculture, food industry and textile industry, as well as in cinemas, theatres, sports facilities, holiday resorts, etc.

Sockets and plugs are of circular shape and can be used within the following ranges:

- ° nominal current: 16 A, 32 A, 63 A, 125 A
- ° nominal voltage: 230 V, 400 V, 500 V
- ° nominal frequency: 50 Hz a 60 Hz
- ° degree of protection: IP 44, IP 54, IP 67
- ° number of poles: 3P (2P+PE)
4P (3P+PE)
5P (3P+N+PE)
- ° temperature between -25 °C till +40 °C

Our sockets, plugs and connectors are manufactured under the STN EN 60309 – 1, 2 norms which comply with European norms EN 60309 – 1, 2 and international recommendation IEC 60309 – 1, 2.

Quality first

The construction of our devices respects the demands on their strong reliability and durability as well as the requirements of health protection. Let us now summarise the fundamental security principles, which will be appreciated by all users of our industrial sockets and plugs.

1. Insulation resistance and dielectric strength of the devices must be sufficient

Tests are carried out to check the fulfilment of these requirements which immediately follow after the tests in the humidity chamber or room where the testing samples have been adjusted to prescribed temperature. Insulation resistance is measured by the voltage of approximately 500 V; the measuring begins one minute after the voltage has been applied.

The insulation resistance must not be lower than 5 MOhm. Dielectric strength is measured by the 50 Hz/60 Hz frequency sinusoid voltage of 2 000 V (2 500 V respectively, for the devices with the nominal voltage of 500 V), which is applied for 1 minute. Neither flash-over nor breakdown must appear during the test.

2. Non-blocked devices must have adequate disconnecting capacity

A plug or a mobile socket is inserted into a built-in (wall) socket or a connecting built-in appliance, inlet (wall inlet) and subsequently pulled out with the frequency of 7.5 strokes per minute. The electric contact is maintained for not longer than

4 seconds and not shorter than 2 seconds.

There are 50 cycles set for the 16 A and 32 A devices, 20 cycles for 63 A and 125 A devices, respectively. The samples are tested at the 1.1 level of nominal working voltage, and 1.25 level of nominal current values and line current factor 0.6. A persistent arc must not appear during testing. After testing, the samples must not show any damage that would disable their further operation and plug pin inlets must not show any serious damage either. Our 63 A (types IV, IVG, IVGN, IZ, IZGN, IZG, IPGN, IPG 63xx) sockets and plugs have a sufficient switching capacity, so their electrical blocking by a control (pilot) contact is therefore unnecessary.

3. Normal operation

The devices must be resistant to the effects of mechanical, electric and heat stress which may appear during normal operation without any excessive wear or other damaging effects. The non-blocked devices tested as described in Point 2 above are further tested in the following cycles:

- ° devices 16 A – 5000 cycles under load only
- ° devices 32 A and 63 A – 1000 cycles under load, 1000 cycles unloaded
- ° devices 125 A – 250 cycles under load, 250 cycles unloaded
- ° loading condition: load of nominal voltage and nominal current under line current factor 0.6

After test the samples must not show:

- ° any wear preventing further operation of the device and its possible blocking, respectively
- ° any damage of cover or barriers
- ° any damage of plug pin inlets which could cause malfunction
- ° any loosening of electric or mechanical connections

WARNING – Disconnecting capacity is required as protection in case of accidental insertion or release of a plug under load. According to STN 33 2180, industrial sockets and plugs are not designed for the operational switching on and off of electrical appliances.

4. Mechanical resistance

Dismantling devices are equipped with the lightest Type of power supply cable of the smallest suitable cross-section. They are then frozen at the temperature of -25 °C. Subsequently, the free end of the 2.25 metre-long cable is attached to the wall at 75 cm over the ground. The sample is held so that the cable remains in horizontal position and then is dropped onto the concrete floor. The process is repeated eight times, while the cable is twisted of 45° in the point of attachment before each trial. After tests the samples must not show any damage, chiefly, none of the parts may be loosened or separated.

5. Heat and combustion resistance

5.1 Parts made of insulation material are tested by static burden by an appropriate testing device. The surface of tested parts



is placed in horizontal position and a steel ball with 5 mm diameter is pressed into that surface with the force of 20 N.

Testing takes place in a heat chamber at the temperatures of:

- ° 125 °C for parts which carry the live parts of dismantling device
- ° 80 °C for other parts

The ball is removed after one hour and the diameter of the impression is measured. If the material has been deformed, the diameter must not exceed 2 mm.

5.2 The external parts of insulation material and insulation parts that carry the live parts of device must be resistant to excessive heat and combustion. The hot wire test, described in IEC 60695-2-1, is used to check if this requirement is fulfilled.

The temperature of hot wire is:

- ° 650 °C for insulation material parts not needed to keep the conducting parts and protection circuit parts in their position even though they touch them
- ° 850 °C for insulation material parts needed to keep the conducting parts and protection circuit parts in their position.

The contact lasts 30 seconds.

A device passed the hot wire test, if:

- ° neither perceivable flame nor permanent heating had appeared; or
- ° the flame or the heating of the sample or its surroundings ceased within 30 seconds after the hot wire had been removed and the surrounding parts did not burn completely.

6. The Resistance of rubber and thermoplastic to ageing

The devices with rubber or thermoplastic covers and elastomeric parts, such as joint rings and washers, must show sufficient resistance to ageing which is checked by accelerated ageing test in the atmosphere with normal air composition and pressure.

The samples hung freely in a heat chamber with the natural circulation of air:

- ° 70 °C and 10 days for rubber
- ° 80 °C and 7 days for thermoplastic

The samples are examined after the chamber has been cooled to standard room temperature. No cracks may be visible to the naked eye and the surface must not be sticky or greasy. The samples must not show any damage which would lead to the failure of standard requirements.

The design of the devices ensures that the devices with different working voltages are not interchangeable. The working voltage of a device is determined by the position of the key groove and the protective contact, the so-called hour angle, when the key groove is always in the position of 6 hours. The figure of the hour angle is derived from the position of the protective contact compared to the clock face, the socket being observed from the front. To prevent fault connection, the socket is fitted with a key groove, while the plug is fitted with a key. The diameter of protective pin is different from that of phase pin, wrong insertion is therefore completely excluded.

The Installation of sockets and connectors on flammable surfaces

To meet the requirements of STN 33 2312, sockets and inlets cannot be installed directly on flammable or easily combustible surfaces. It is necessary to separate them from such surfaces by a non-flammable, heat-insulating plate at least 5 mm thick, protruding at least 10 mm on each side, or they must be installed in at least 30 mm distance from the flammable surface, e.g. on consoles in accordance with STN 33 2312.

Implemented innovations

The 16 and 32 A, 400 V, IP44, devices in 5 and 4-pole version were introduced into our production portfolio such as connecting sockets ISN, plugs IVN, wall sockets IZN, wall inlets IPN and built-in flange sockets IEN (the letter "N" stands for New design). The screws of terminals of the built-in flange sockets are accessible from the same direction and when they are installed on the flat wall of the distribution box, they wires can be connected without their prior dismantling.

Dimensioning of connecting terminals

Socket system IEC [A]	Motor output [kW]		Connecting terminals for conductor [mm ²]	
	400 V	500 V	connecting outlets flexible conductor	full installations full conductor
16	7	9	1 – 2,5 Cu	1,5 – 4 Cu/Al
32	15	20	2,5 – 6 Cu	2,5 – 10 Cu/Al
63	30	40	4 – 16 Cu	6 – 25 Cu/Al
125	60	80	16 – 50 Cu	25 – 70 Cu/Al

kW data are approximate

In 63 A devices we have widen the assortment by the 5-pole appliances in protection IP67 distinguished from the IP44 versions by the letter G., i.e. connecting sockets ISGN, plugs IVGN, wall sockets IZGN, wall inlets IPGN and built-in sockets IEGN. The shape is adjusted to 16 A and 32 A series. The authentic technical solutions of the connecting terminals and the cable fixing and its sealing have been used also in these sockets and plugs.

Reversing adapters RA, A

Reversing adapters "RA" 32 A and 16 A providing the change of the phase sequence and the adapter "A" from 5-pole socket into a 4-pole socket have been added to the range of goods of our production. Its use is allowed on the symmetric load since the 4-pole socket has the 3P + PE Type of connection.

The straight Types of the flange built-in sockets and inlets – IERN, IRRN and IRRNO

The fixing frames are 75 x 75 mm in size with the distance of 60 x 60 mm among the fixing openings. Terminal components are identical with the sockets and the plugs.



Industrial socket with a box under the plaster – IZV

The IZV socket is specifically designed for use in the tidy-looking interiors above all, where the emphasis is put on the accurate implementation and a decent presence of industrial sockets. The box embedded in the plaster is common for all the Types. 6 openings for conductors input are situated on the box – 4 of them of an oval shape on the side walls and 2 of a round shape on the bottom of the box. The boxes can be linked together by means of the connecting element PR-10 and the bolts on the boxes that enable their mutual connecting in a row).

Combined socket IZVZ

Our new product of a Type designation IZVZ combines 400V and 230V socket in one product. It finds its use in all the cases when the situation calls for a simultaneous connection of a single-phase and three-phase device. A special emphasis was put on the electric capability, safety and user-friendliness in course of the development of the device. IZVZ is supplied on the market in the cover of IP44 and in versions 16A 4P (IZVZ 1643), 16A 5P (IZVZ 1653). The 32-ampere variants (IZVZ 3243, IZVZ 3253) are delivered with a case for a tube fuse 16A for single phase 230V /16 A socket safety.

Industrial plugs and sockets 125A

In 2008 we added into our range of products the following products: industrial plugs, inlets and sockets of current 125A in 3, 4, 5 poles with voltage 230V, 400V and 500V in protection IP67.

New series of 16A/230 V, 3P industrial plugs, sockets and inlets

Our production portfolio has been completed by the newly developed industrial plugs and sockets under Types IVN, ISN, IZN, IPN, IRRN, IERN with the nominal current of 16A, 3P, 230V

and the degree of protection IP44 which are fully compatible with the new design of our 16A, 4P and 5P, 400V appliances.

Screwless series LEADER Plus

In 2009-2011 company SEZ DK expanded its assortment in new screwless range 16A and 32A – 5-poles industrial sockets and plugs IVB, ISB, IZB, IPB, IEB, IERB, IRRB (letter B means screwless). This range was introduced on the market under the commercial name LEADER Plus.

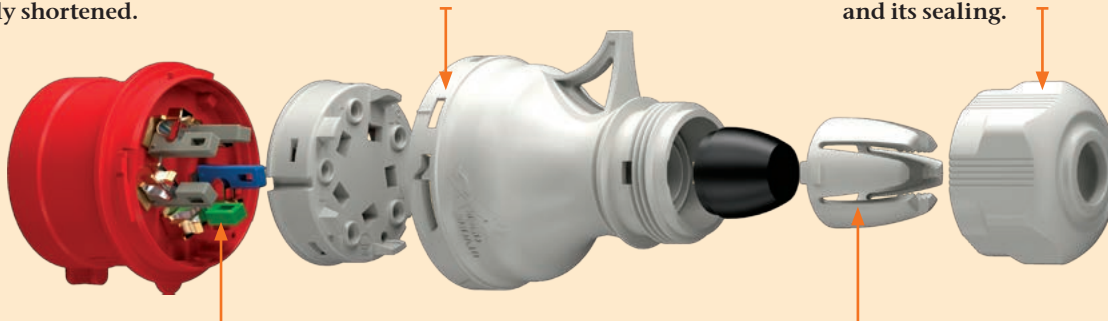
Generally, the system of screwless terminal can be solved in many ways and our system uses the principle of a spring terminal, featuring a screwless spring clamp which allows to connect rigid conductors up to cross section 4mm² in 16A appliances and stranded wires up to 2,5mm². In 32A the cross section are 10mm² for rigid and 6mm² for stranded wires respectively. Connection of male or female pin with holder of spring clamp is realized by a special riveting. Successful implementation of this technical principle we achieved firm and fast connection with no further need of continuous control of connection quality and safety during its use.

New technical solution markedly shortens time of montage in 39% in compare with screw sockets and plugs. Reduction of this time is achieved that covers of plugs and sockets are in transport unlocked position (opening without using of screwdriver) and also plugs, inlets and sockets contacts are delivered in open position (operating levers are detached) and after putting of stripped wire (rated length is 12mm) you just to push the operating levers down and the wire is fastened. Particular operating levers are distinguished by respective colours and together with the indicative marking on the plastic body the chance of a wrong connection of individual wires is minimized.

Pilot contact:

Plugs and sockets with nominal current 63A (type IRGN1) and

- Faster and more comfortable installation, average mounting time shortened by 39%. The total length of plugs and sockets was significantly shortened.
- Body covers of plugs and sockets are supplied in unlocked but still transport-safe position for faster mounting.
- A new design of a cable inlet bushing as well as the ergonomic shape of a sealing nut improves manipulation while mounting the cable and its sealing.
- The appropriate colours of actuating levers are used for clear identification: L1, L2, L3, N, and PE. Contacts are supplied in open stand-by position for faster wires mounting.
- The lamellar clasp remains safely locked by two serrations in the body of the product even during the manipulation with a cable.





types 125A are offered also with pilot contacts. They are placed in the middle of socket and they interrupt input by the contactor from the network during pulling the plug out. Contacts are disconnected without current and there is no burning on them.

Degree of protection IP

Stated in the catalogue our plugs and sockets with the nominal current 16A, 32A meet the degree of protection of IP44, IP54 or IP67 and 63A, 125A reach IP67 in compliance with

STN EN 60529.

The degree of protection is tested:

- * on the plugs and sockets itself and also in their coupled position
- * on plugs and inlets in their full coupling with the corresponding sockets

IP xx
 — Protection against solid bodies
 — Protection against water

1st digit	Protection against solid bodies	2nd digit	Protection against water
0	Non protected	0	Non protected
1	Protected against solid foreign objects of \varnothing 50 mm and greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects of \varnothing 12,5 mm and greater	2	Protected against vertically falling water drops when enclosure tilted up to 15°
3	Protected against solid foreign objects of \varnothing 2,5 mm and greater	3	Protected against spraying water
4	Protected against solid foreign objects of \varnothing 1 mm and greater	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water

Marking of products:

Key for industrial plugs and inlets

Example of marking	I V G N 63 5 3	
	I x x x x x x	
I – industrial		Voltage
V – plug		2 – 230V
P – wall inlet		3 – 400V
R – built-in appliance inlet angled		5 – 500V
RR – built-in appliance inlet straight		
G – degree of protection IP 67		Number of poles
N – new series		3 – 3 póly
NO – reversing		4 – 4 póly
B – screwless		5 – 5 pólov
		Current
		16 – 16A
		32 – 32A
		63 – 63A
		125 – 125A

Key for industrial sockets

Example of marking	I Z G N 63 5 3	
	I x x x x x x	
I – industrial		Voltage
S – connecting socket		2 – 230V
Z – wall socket		3 – 400V
E – built-in socket angled		5 – 500V
ER – built-in socket straight		
G – degree of protection IP 67		Number of poles
N – new series		3 – 3 póly
B – screwless		4 – 4 póly
S – old series		5 – 5 pólov
VZ – combined socket		Current
V – socket with a box beneath the plaster		16 – 16A
VN – socket on the wall		32 – 32A
		63 – 63A
		125 – 125A

Colour codes:

To facilitate the identification of different voltages are all CEE plugs and sockets color coded.

Nominal voltage	Colour code
20 – 25 V	violet
200 – 250 V	blue
380 – 480 V	red
500 – 690 V	black

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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ISN 1632

16 A	230 V	3	IP 44	6 h	ISN 1632	12	166	20/1
16 A	400 V	4	IP 44	6 h	ISN 1643	12	181	20/1
16 A	500 V	4	IP 44	7 h	IS 1645	12	176	20/2
16 A	400 V	5	IP 44	6 h	ISN 1653	12	197	20/1



ISN 3243

32 A	230 V	3	IP 54	6 h	ISN 3232	9	270	20/1
32 A	400 V	4	IP 44	6 h	ISN 3243	9	289	20/1
32 A	500 V	4	IP 44	7 h	IS 3245	12	257	20/2
32 A	400 V	5	IP 44	6 h	ISN 3253	9	315	20/1

Screwless



ISB 1653

16 A	400 V	5	IP 44	6 h	ISB 1653	12	190	20/1
32 A	400 V	5	IP 44	6 h	ISB 3253	9	340	20/1



ISG 1643

16 A	230 V	3	IP 67	6 h	ISG 1632	10	165	20/3
16 A	400 V	4	IP 67	6 h	ISG 1643	10	190	20/3
16 A	400 V	5	IP 67	6 h	ISG 1653	10	224	20/3



ISG 3232

32 A	230	3	IP 67	6 h	ISG 3232	12	298	20/3
32 A	400 V	4	IP 67	6 h	ISG 3243	12	285	20/3
32 A	400 V	5	IP 67	6 h	ISG 3253	12	324	20/3



ISGN 6535

63 A	400 V	4	IP 67	6 h	ISG 6343	10	616	20/4
63 A	500 V	4	IP 67	7 h	ISG 6345	10	670	20/4
63 A	400 V	5	IP 67	6 h	ISGN 6353	2	976	20/5

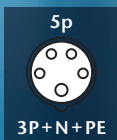
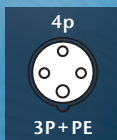
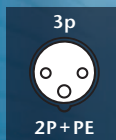


ISGN 12543

125 A	230 V	3	IP 67	6 h	ISGN 12532	2	105	20/6
125 A	400 V	4	IP 67	6 h	ISGN 12543	2	116	20/6
125 A	500 V	4	IP 67	7 h	ISGN 12545	2	116	20/6
125 A	400 V	5	IP 67	6 h	ISGN 12553	2	125	20/6
125 A	500 V	5	IP 67	7 h	ISGN 12555	2	125	20/6

Note: We also offer items with the code ISGN 125xx-p (with pilot contact).

Wall sockets



230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h

Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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16 A	230 V	3	IP 44	6 h	IZN 1632	9	189	20/7
16 A	400 V	4	IP 44	6 h	IZN 1643	9	205	20/7
16 A	500 V	4	IP 44	7 h	IZS 1645	12	172	20/8
16 A	400 V	5	IP 44	6 h	IZN 1653	9	220	20/7



IZN 1632

32 A	230 V	3	IP 54	6 h	IZN 3232	6	283	20/8
32 A	400 V	4	IP 44	6 h	IZN 3243	6	300	20/7
32 A	500 V	4	IP 44	7 h	IZS 3245	12	250	20/8
32 A	400 V	5	IP 44	6 h	IZN 3253	6	346	20/7



IZN 3253

16 A	400 V	5	IP 44	6 h	IZB 1653	9	219	20/7
32 A	400 V	5	IP 44	6 h	IZB 3253	6	348	20/7

Screwless



IZB 3253

63 A	400 V	4	IP 44	6 h	IZ 6343	4	741	21/9
63 A	500 V	4	IP 44	7 h	IZ 6345	4	824	21/9



IZ 6343

16 A	230 V	3	IP 67	6 h	IZG 1632	9	255	21/10
16 A	400 V	4	IP 67	6 h	IZG 1643	9	273	21/10
16 A	400 V	5	IP 67	6 h	IZG 1653	9	321	21/10



IZG 1653

32 A	230 V	3	IP 67	6 h	IZG 3232	12	419	21/10
32 A	400 V	4	IP 67	6 h	IZG 3243	12	421	21/10
32 A	400 V	5	IP 67	6 h	IZG 3253	12	456	21/10



IZG 3232

63 A	400 V	4	IP 67	6 h	IZG 6343	4	802	21/11
63 A	500 V	4	IP 67	7 h	IZG 6345	4	916	21/11
63 A	400 V	5	IP 67	6 h	IZGN 6353	4	1179	21/12



IZGN 6353

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h

3p
2P+PE

4p
3P+PE

5p
3P+N+PE

Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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IZGN 12553

125 A	230 V	3	IP 67	6 h	IZGN 12532	1	185	21/13
125 A	400 V	4	IP 67	6 h	IZGN 12543	1	190	21/13
125 A	500 V	4	IP 67	7 h	IZGN 12545	1	190	21/13
125 A	400 V	4	IP 67	6 h	IZGN 12553	1	195	21/13
125 A	500 V	5	IP 67	7 h	IZGN 12555	1	195	21/13

Note: We also offer items with the code IZGN 125xx-p (with pilot contact).



IZVZ 1653

16 A	400 V	4	IP 44	6 h	IZVZ 1643	6	334	21/14
16 A	400 V	5	IP 44	6 h	IZVZ 1653	6	357	21/14
32 A	400 V	4	IP 44	6 h	IZVZ 3243	4	419	21/14
32 A	400 V	5	IP 44	6 h	IZVZ 3253	4	447	21/14

Combined sockets with house socket. IZVZ 32xx contains a fuse 16A.



IZVZ-S 1653

16 A	230 V	3	IP 44	6 h	IZVZ-S 1632	6	320	21/14
16 A	400 V	4	IP 44	6 h	IZVZ-S 1643	6	334	21/14
16 A	400 V	5	IP 44	6 h	IZVZ-S 1653	6	357	21/14
32 A	400 V	4	IP 44	6 h	IZVZ-S 3243	4	419	21/14
32 A	400 V	5	IP 44	6 h	IZVZ-S 3253	4	447	21/14

Combined sockets with house socket – version SCHUKO. IZVZ-S 32xx contains a fuse 16A.



box
under the plaster IZV 16

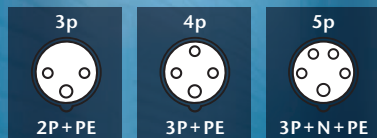
16 A	250 V	3	IP 44	6 h	IZV 16, IZV 16S	8	175	21/15
16 A	400 V	4	IP 44	6 h	IZV 1643	8	277	21/15
16 A	400 V	5	IP 44	6 h	IZV 1653	8	280	21/15
32 A	230 V	3	IP 44	6 h	IZV 3232	8	305	21/15
32 A	400 V	4	IP 44	6 h	IZV 3243	8	331	21/15
32 A	400 V	5	IP 44	6 h	IZV 3253	8	340	21/15



box on the wall IZVN 16

16 A	250 V	3	IP 44	6 h	IZVN 16, IZVN 16S	8	221	21/16
16 A	400 V	4	IP 44	6 h	IZVN 1643	8	317	21/16
16 A	400 V	5	IP 44	6 h	IZVN 1653	8	328	21/16
32 A	230 V	3	IP 44	6 h	IZVN 3232	8	345	21/16
32 A	400 V	4	IP 44	6 h	IZVN 3243	8	370	21/16
32 A	400 V	5	IP 44	6 h	IZVN 3253	8	390	21/16

Built-in sockets



230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h

Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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16 A	230 V	3	IP 54	6 h	IERN 1632	6	127	22/17
16 A	400 V	4	IP 54	6 h	IERN 1643	6	146	22/17
16 A	400 V	5	IP 54	6 h	IERN 1653	6	159	22/17

Built-in socket straight.



IERN 1632

32 A	230 V	3	IP 54	6 h	IERN 3232	12	185	22/17
32 A	400 V	4	IP 54	6 h	IERN 3243	12	211	22/17
32 A	400 V	5	IP 54	6 h	IERN 3253	12	235	22/17

Built-in socket straight.



IERN 3253

16 A	400 V	5	IP 54	6 h	IERB 1653	6	156	22/18
32 A	400 V	5	IP 54	6 h	IERB 3253	12	253	22/18

Built-in socket straight.



IERB 1653

16 A	230 V	3	IP 54	6 h	IE 1632	12	117	22/19
16 A	400 V	4	IP 54	6 h	IEN 1643	12	117	22/20
16 A	500 V	4	IP 44	7 h	IE 1645	12	122	22/19
16 A	400 V	5	IP 54	6 h	IEN 1653	12	136	22/20

Built-in socket angled.



IE 1632

32 A	230 V	3	IP 54	6 h	IE 3232	12	176	22/19
32 A	400 V	4	IP 54	6 h	IEN 3243	12	188	22/20
32 A	500 V	4	IP 44	7 h	IE 3245	12	187	22/19
32 A	400 V	5	IP 54	6 h	IEN 3253	12	209	22/20

Built-in socket angled.



IEN 3253

16 A	400 V	5	IP 54	6 h	IEB 1653	12	151	22/20
32 A	400 V	5	IP 54	6 h	IEB 3253	10	262	22/20

Built-in socket angled.



IEB 1653

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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VZ 16, 16C

VZ 16S

16 A	250 V	3	IP 54		VZ 16	12	41	22/21
16 A	250 V	3	IP 54		VZ 16S	12	40	22/21

House socket VZ 16 S version SCHUKO.



VZG 16, 16C

VZG 16S

16 A	250 V	3	IP 67		VZG 16	12	52	22/22
16 A	250 V	3	IP 67		VZG 16S	12	79	22/22
16 A	250 V	3	IP 67		VZG 16C	12	61	22/22

House socket VZG 16 S version SCHUKO, VZG 16 C – with children protection.



VZ 48

10 A	48 V	2	IP 54		VZ 48	12	34	22/23
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It is possible to insert the plug with flat pins 10 A/48V into this socket, which is in accordance with the norm STN 35 4517 modification "K" (2P). VZ48 socket can also be used in case of lower voltage, i.e. 24V or 12V. For that case it is necessary to add an extra label where applied voltage is written!



IEG 1632

16 A	230 V	3	IP 67	6 h	IEG 1632	12	134	22/24
16 A	400 V	4	IP 67	6 h	IEG 1643	12	153	22/24
16 A	400 V	5	IP 67	6 h	IEG 1653	12	177	22/24

Built-in socket angled.



IEG 3253

32 A	230 V	3	IP 67	6 h	IEG 3232	12	227	22/24
32 A	400 V	4	IP 67	6 h	IEG 3243	12	235	22/24
32 A	400 V	5	IP 67	6 h	IEG 3253	12	269	22/24

Built-in socket angled.



IEGN 6353

63 A	400 V	4	IP 67	6 h	IEG 6343	8	540	23/25
63 A	500 V	4	IP 67	7 h	IEG 6345	8	553	23/25
63 A	400 V	5	IP 67	6 h	IEGN 6353	2	976	23/26

Built-in socket IEG63xx (straight.), IEGN 6353 (angled).

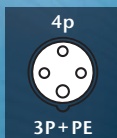


IEGN 12543

125 A	230 V	3	IP 67	6 h	IEGN 12532	2	800	23/27
125 A	400 V	4	IP 67	6 h	IEGN 12543	2	890	23/27
125 A	500 V	4	IP 67	7 h	IEGN 12545	2	890	23/27
125 A	400 V	4	IP 67	6 h	IEGN 12553	2	990	23/27
125 A	500 V	5	IP 67	7 h	IEGN 12555	2	990	23/27

Built-in socket angled. We also offer the items with codes IEGN 125xx-p (with pilot contact).

Other sockets



230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h

Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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16 A	250 V	3	IP 65		VZGN 16	6	213	23/28
16 A	250 V	3	IP 65		VZGN 16S	6	213	23/28



VZGN 16

200 A	24 V				ZAB 24 V	4	576	23/29



ZAB 24V

Battery socket is used for connection of auxiliary source of electric current designed for starting of gas engines.

16 A	400 V	5	IP 44	6 h	BZS 1653	8	580	23/30
32 A	400 V	5	IP 44	6 h	BZS 3253	8	787	23/30

The switch cannot be switched on without inserted plug.

The plug cannot be pulled out when the switch is on.



BZS 3253



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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IVN 1632

16 A	230 V	3	IP 44	6 h	IVN 1632	14	128	24/31
16 A	400 V	4	IP 44	6 h	IVN 1643	14	146	24/31
16 A	500 V	4	IP 44	7 h	IV 1645	10	160	24/33
16 A	400 V	5	IP 44	6 h	IVN 1653	14	159	24/31



IVN 3253

32 A	230 V	3	IP 54	6 h	IVN 3232	10	217	24/31
32 A	400 V	4	IP 44	6 h	IVN 3243	10	235	24/31
32 A	500 V	4	IP 44	7 h	IV 3245	10	214	24/33
32 A	400 V	5	IP 44	6 h	IVN 3253	10	261	24/31

Screwless



IVB 1653

16 A	400 V	5	IP 44	6 h	IVB 1653	14	152	24/31
32 A	400 V	5	IP 44	6 h	IVB 3253	10	274	24/31



IVNO 1653

16 A	400 V	5	IP 44	6 h	IVNO 1653	14	156	24/32
32 A	400 V	5	IP 44	6 h	IVNO 3253	10	259	24/32

Reversing plug allows change phases by turning the rotary part.



IV 6343

63 A	400 V	4	IP 44	6 h	IV 6343	12	470	24/34
63 A	400 V	4	IP 44	7 h	IV 6345	12	515	24/34

3p

2P+PE

4p

3P+PE

5p

3P+N+PE



Plugs

230V
 50-60Hz
 3p = 6h

400V
 50-60Hz
 4p, 5p = 6h

500V
 50-60Hz
 4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
---------	---------	-------	----------------------	------------	------	-------------	-------------	----------------------

16 A	230 V	3	IP 67	6 h	IVG 1632	12	129	24/35
16 A	400 V	4	IP 67	6 h	IVG 1643	12	169	24/35
16 A	400 V	5	IP 67	6 h	IVG 1653	12	187	24 35



IVG 1632

32 A	230 V	3	IP 67	6 h	IVG 3232	12	238	24/35
32 A	400 V	4	IP 67	6 h	IVG 3243	12	238	24/35
32 A	400 V	5	IP 67	6 h	IVG 3253	12	275	24/35



IVG 3253

63 A	400 V	4	IP 67	6 h	IVG 6343	8	623	24/36
63 A	500 V	4	IP 67	7 h	IVG 6345	8	692	24/36
63 A	400 V	5	IP 67	6 h	IVGN 6353	2	795	24/37



IVGN 6353

125 A	230 V	3	IP 67	6 h	IVGN 12532	2	940	24/38
125 A	400 V	4	IP 67	6 h	IVGN 12543	2	1050	24/38
125 A	500 V	4	IP 67	7 h	IVGN 12545	2	1050	24/38
125 A	400 V	4	IP 67	6 h	IVGN 12553	2	1160	24/38
125 A	500 V	5	IP 67	7 h	IVGN 12555	2	1160	24/38

IVGN 125A have a pilot contact.



IVGN 12553

16 A	250 V	3	IP 67	6 h	PVG 16	14	120	25/39

The plug UNI-SCHUKO PVG16 is protected in IP67 and compatible with built-in sockets VZG16, VZG16C, VZG16S.



PVG 16

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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IPN 1632

16 A	230 V	3	IP 44	6 h	IPN 1632	9	156	25/40
16 A	400 V	4	IP 44	6 h	IPN 1643	9	170	25/40
16 A	500 V	4	IP 44	7 h	IP 1645	12	167	25/41
16 A	400 V	5	IP 44	6 h	IPN 1653	9	184	25/40



IPN 3253

32 A	230 V	3	IP 54	6 h	IPN 3232	6	202	25/40
32 A	400 V	4	IP 44	6 h	IPN 3243	6	249	25/40
32 A	500 V	4	IP 44	7 h	IP 3245	12	244	25/41
32 A	400 V	5	IP 44	6 h	IPN 3253	6	274	25/40



IPB 3253

16 A	400 V	5	IP 44	6 h	IPB 1653	9	182	25/40
32 A	400 V	5	IP 44	6 h	IPB 3253	6	282	25/40



IPNO 1653

16 A	400 V	5	IP 44	6 h	IPNO 1653	9	201	25/42
32 A	400 V	5	IP 44	6 h	IPNO 3253	6	291	25 /42

Reversing plug allows change phases by turning the rotary part.



IPG 1632

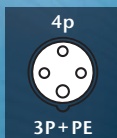
16 A	230	3	IP 67	6 h	IPG 1632	10	154	25/43
16 A	400 V	4	IP 67	6 h	IPG 1643	10	185	25/43
16 A	400 V	5	IP 67	6 h	IPG 1653	6	216	25/43



IPG 3253

32 A	230	3	IP 67	6 h	IPG 3232	12	271	25/43
32 A	400 V	4	IP 67	6 h	IPG 3243	12	274	25/43
32 A	400 V	5	IP 67	6 h	IPG 3253	3	307	25/43

Wall inlets



230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h

Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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16 A	230 V	3	IP 67	6 h	CPG 1632	12	261	25/44
32 A	230 V	3	IP 67	6 h	CPG 3232	12	424	25/44



CPG 1632

63 A	400 V	4	IP 67	6 h	IPG 6343	8	849	25/45
63 A	500 V	4	IP 67	7 h	IPG 6345	8	850	25/45
63 A	400 V	5	IP 67	6 h	IPGN 6353	4	1017	25/46



IPGN 6353

125 A	230 V	3	IP 67	6 h	IPGN 12532	1	1760	26/47
125 A	400 V	4	IP 67	6 h	IPGN 12543	1	1800	26/47
125 A	500 V	4	IP 67	7 h	IPGN 12545	1	1800	26/47
125 A	400 V	5	IP 67	6 h	IPGN 12553	1	1840	26/47
125 A	500 V	5	IP 67	7 h	IPGN 12555	1	1840	26/47

IPGN 125 A have a pilot contact.



IPGN 12553

16 A	400 V	5	IP 44	6 h	VPS 1653	8	587	26/48
32 A	400 V	5	IP 44	6 h	VPS 3253	8	852	26/48

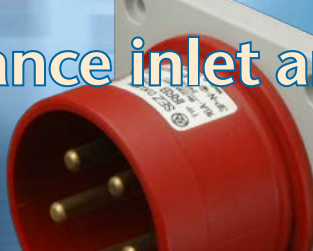


VPS 1653

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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IRRN 1632

16 A	230 V	3	IP 54	6 h	IRRN 1632	6	93	26/49
16 A	400 V	4	IP 54	6 h	IRRN 1643	6	113	26/49
16 A	400 V	5	IP 54	6 h	IRRN 1653	6	127	26/49



IRRN 3253

32 A	230 V	3	IP 54	6 h	IRRN 3232	6	134	26/49
32 A	400 V	4	IP 54	6 h	IRRN 3243	6	157	26/49
32 A	400 V	5	IP 54	6 h	IRRN 3253	6	179	26/49



IRRB 1653

Screwless

16 A	400 V	5	IP 54	6 h	IRRB 1653	6	114	26/50
32 A	400 V	5	IP 54	6 h	IRRB 3253	6	188	26/50



IRRNO 1653

16 A	400 V	5	IP 44	6 h	IRRNO 1653	6	127	26/51
32 A	400 V	5	IP 44	6 h	IRRNO 3253	6	183	26/51

Reversing plug allows change phases by turning the rotary part.



IRR 3253

16 A	400 V	5	IP 44	6 h	IRR 1653	12	174	26/52
32 A	400 V	5	IP 44	6 h	IRR 3253	12	255	26/52



IR 1632

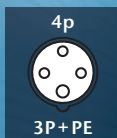
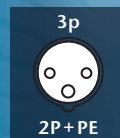
16 A	230 V	3	IP 44	6 h	IR 1632	12	122	26/53
16 A	400 V	4	IP 44	6 h	IR 1643	12	144	26/53
16 A	400 V	5	IP 44	6 h	IR 1653	12	153	26/53



IR 3253

32 A	400 V	3	IP 44	6 h	IR 3232	12	191	26/53
32 A	400 V	4	IP 44	6 h	IR 3243	12	196	26/53
32 A	400 V	5	IP 44	6 h	IR 3253	12	235	26/53

Built-in appliance inlet angled



230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Type	Packing pcs	Weight g/pc	Dimensions page/pic.
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16 A	230 V	3	IP 67	6 h	IRG 1632	10	136	26/54
16 A	400 V	4	IP 67	6 h	IRG 1643	10	175	26/54
16 A	400 V	5	IP 67	6 h	IRG 1653	10	200	26/54



IRG 1632

32 A	230 V	3	IP 67	6 h	IRG 3232	12	240	26/54
32 A	400 V	4	IP 67	6 h	IRG 3243	12	237	26/54
32 A	400 V	5	IP 67	6 h	IRG 3253	12	292	26/54



IRG 3253

16 A	400 V	5	IP 67	6 h	IRGR 1653	12	166	27/55
32 A	400 V	5	IP 67	6 h	IRGR 3253	12	293	27/55



IRGR 3253

63 A	400 V	4	IP 67	6 h	IRG 6343	8	813	27/56
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IRG 6343

63 A	400 V	5	IP 67	6 h	IRGN1 6353	2	617	27/57
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IRGN1 6353

Built-in socket angled.

125 A	230 V	3	IP 67	6 h	IRGN 12532	2	790	27/58
125 A	400 V	4	IP 67	6 h	IRGN 12543	2	900	27/58
125 A	500 V	4	IP 67	7 h	IRGN 12545	2	900	27/58
125 A	400 V	5	IP 67	6 h	IRGN 12553	2	1000	27/58
125 A	500 V	5	IP 67	7 h	IRGN 12555	2	1000	27/58



IRGN 12553

IRGN 125 A have a pilot contact.

230V
50-60Hz
3p = 6h

400V
50-60Hz
4p, 5p = 6h

500V
50-60Hz
4p, 5p = 7h



Current	Voltage	Poles	Degree of protection	Hour angle	Typee	Packing pcs	Weight g/pc	Dimensions page/pic.
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Adapter – change of 5P to 4P.

16 A	400 V	5/4	IP 44	6 h	A 1653/43	9	284	27/59
32 A	400 V	5/4	IP 44	6 h	A 3253/43	6	457	27/59

The use of the adapter A 5p/ 4p is determined by the symmetrical load since the 4-pole socket connection is 3P+PE.



Adapter – change 16A to 32A.

16 A/32A	400 V	4	IP 44	6 h	A 16-32/4	8	343	27/60
16 A/32A	400 V	5	IP 44	6 h	A 16-32/5	8	386	27/60



Adapter with a phase changer.

16 A	400 V	4	IP 44	6 h	RA 1643	9	296	27/61
16 A	400 V	5	IP 44	6 h	RA 1653	9	336	27/61
32 A	400 V	4	IP 44	6 h	RA 3243	6	450	27/61
32 A	400 V	5	IP 44	6 h	RA 3253	6	507	27/61



Adapter – change 16A/32A or 5 to 4P + possibility of changing the phases.

16A/32A	400 V	5	IP 44	6 h	A 16-32/5 -0	8	386	27/62
16 A	400 V	5/4	IP 44	6 h	A 1653/43-0	9	284	27/62
32 A	400 V	5/4	IP 44	6 h	A 3253/43-0	6	470	27/62

Pin position can be changed by turning the screwdriver in 180 degrees and achieved the phase change.

The use of the adapter A 5p/ 4p is determined by the symmetrical load since the 4-pole socket connection is 3P+PE.



SA-1

Adopting from industrial plug 3P/16A/ 230V to house socket 250V/16A, S – Schuko.

16A	230 V	3	IP 44	6 h	SA-1	4	219	28/63
16A	230 V	3	IP 44	6 h	SA-1S	4	219	28/63



SA-2

Adopting from industrial plug 5P/16A/ 400V to house socket 250V/16A, S – Schuko.

16A	400 V	5	IP 44	6 h	SA-2	4	243	28/63
16A	400 V	5	IP 44	6 h	SA-2S	4	243	28/63

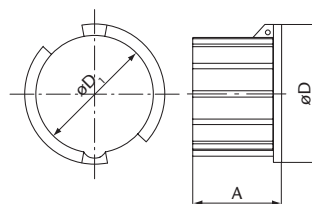


SA-3

Adopting from plug UNISCHUKO 250V/16A to industrial plug 3P/16A/230V respectively 3P/32A/230V.

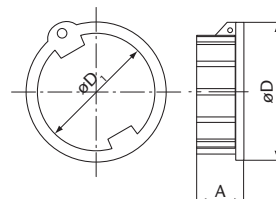
16 A	250 V	3	IP 44	6 h	SA-3	4	241	28/64
32 A	250 V	3	IP 44	6 h	SA-4	4	322	28/64

Use plugs and inlets	Type	Picture	Dimension (mm)		
			A	øD	øD ₁
16A – 3P	ND 105-0757	1	39,5	60	44,5
16A – 4P	ND 16CPG1	1	39,5	68	50,5
32A – 3P, 4P	ND 32CPG1	1	48	82	58,5
63A – 3P, 4P, 5P	ND 63CPG1	1	70,5	95,5	71,5



Picture 1

sockets					
16A – 4P	ND 16CZG1	2	16,5	78	68,5
32A – 3P, 4P	ND 32CZG1	2	19,5	94	82,5
63A – 4P	ND 63CZG1	2	22,5	111,5	99,5

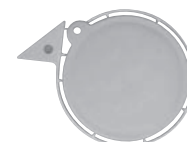
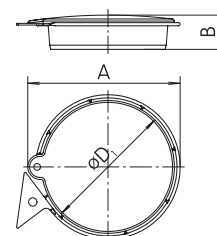


Picture 2

Note: Covers are available only in grey colour.

Type / mm	A	B	øD1		
KV 1643	54,7	16,1	49,5		
KV 1653	62,1	16,2	56,1		
KV 3243	63,3	16,2	57,3		
KV 3253	70	16,4	63,4		

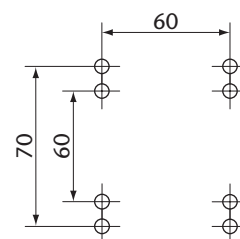
Note: Used for IVN, IVNO, IV, IVG, IPN, IPNO, IP, IPG, IR, IRRN, IRRNO, IRR, IRG, IRGR



Lid KV

Fixing frame

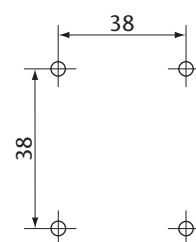
Note: For all types of the built-in sockets **IEN, IE and IERN**.
Use a **ø 4mm** screw for plastic materials during the assembling.



ND 105-2177

Fixing frame

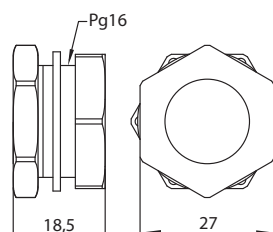
Note: For the built-in socket **VZ16 and VZ16S**.
Use a **ø 4mm** screw for plastic materials during the assembling.



ND 105-2677

Flange SPg 16

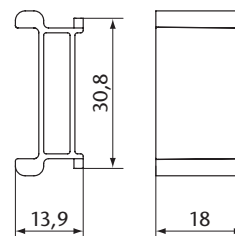
Note: To be used for the connection of **IZVN 16xx, IZVN 32xx**.



SPg 16

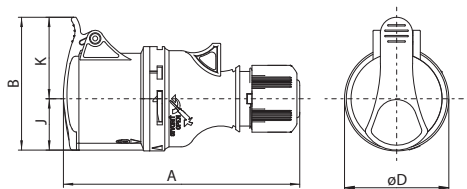
Connecting part PR 10

Note: To be used for **6400-5x, IZV 16, IZV 16xx, IZV 32xx**.



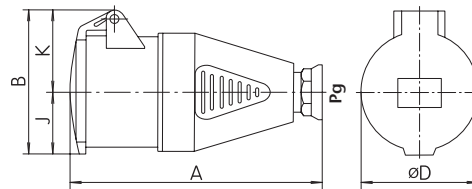
PR 10

1 ISN, ISB / 16A, 32A



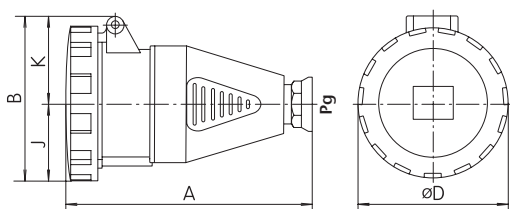
Type / mm	A	B	øD	J	K
ISN 1632	145	79	64	29	50
ISN 1643	145	82	64	32	50
ISN, ISB 1653	145	89	64	35	54
ISN 3232	172	96	73	38	58
ISN 3243	176	96	73	38	58
ISN 3253	177	103	73	41	62
ISB 3253	177	103	73	41	62

2 IS / 16A, 32A



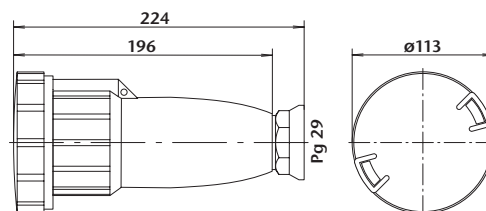
Type / mm	A	B	øD	J	K	Gland
IS 1645	137	80	63	35	45	Pg 16
IS 3245	165	93	72	42	51	Pg 21

3 ISG / 16A, 32A

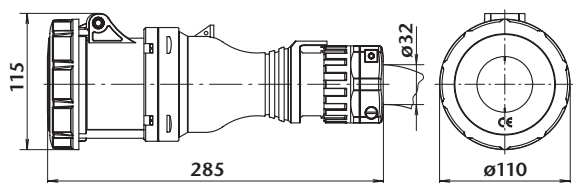


Type / mm	A	B	øD	J	K	Gland
ISG 1632	136	78,5	70	35	43,5	Pg 16
ISG 1643	142	85,5	78	39	46,5	Pg 16
ISG 1653	145	92,5	87	43,5	49	Pg 16
ISG 3232	166	101,5	93	46,5	55	Pg 21
ISG 3243	166	101,5	93	46,5	55	Pg 21
ISG 3253	168	108	100	50	58	Pg 21

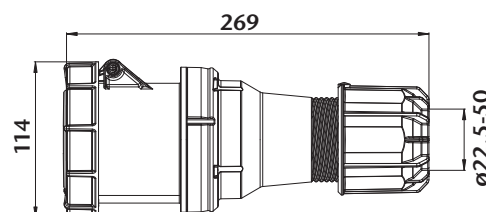
4 ISG / 63A



5 ISGN / 63A

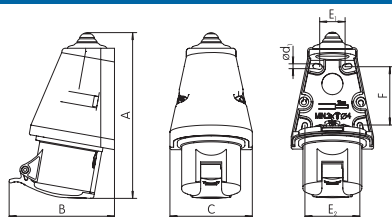


6 ISGN / 125A



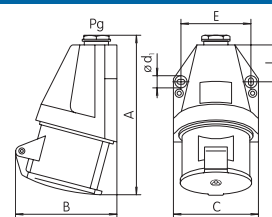
Note: Types marked with "P" have a pilot contact.

7 IZN, IZB / 16A, 32A

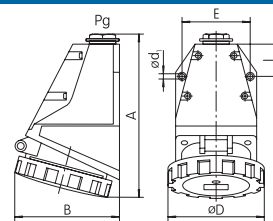
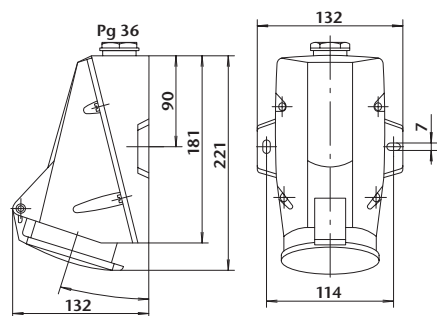


Type / mm	A	B	C	ød1	E1	E2	F
IZN 1632	157	90	78	5	30	53	58
IZN 1643	157	99	78	5	30	53	58
IZN, IZB 1653	158	104	78	5	30	53	58
IZN 3232	179	118	88	5	35	61	60
IZN 3243	179	118	88	5	35	61	60
IZN 3253	181	122	89	5	40	62	63
IZB 3253	181	122	89	5	40	62	63

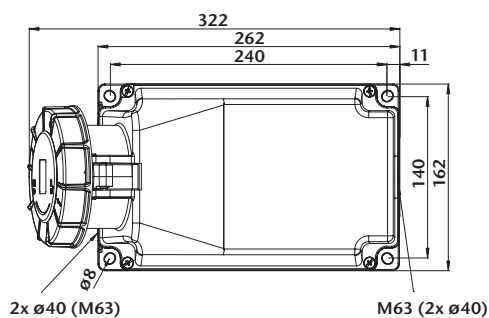
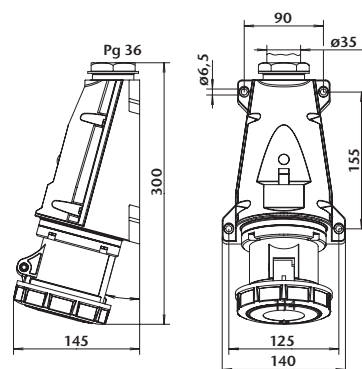
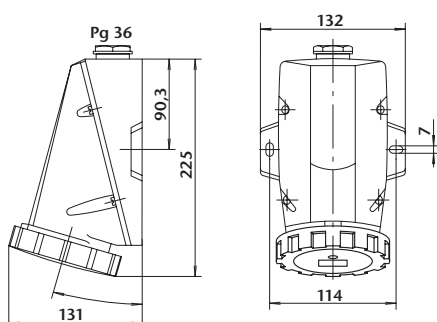
8 IZS / 16A, 32A



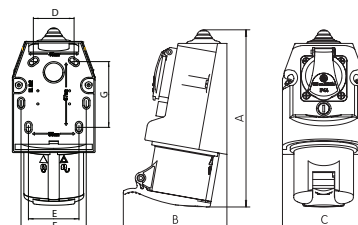
Type / mm	A	B	C	ød1	E	I	Gland
IZS 1645	134	87	75	5,2	60	29,5	Pg 16
IZS 3245	155	101	82	5,2	67	34	Pg 21



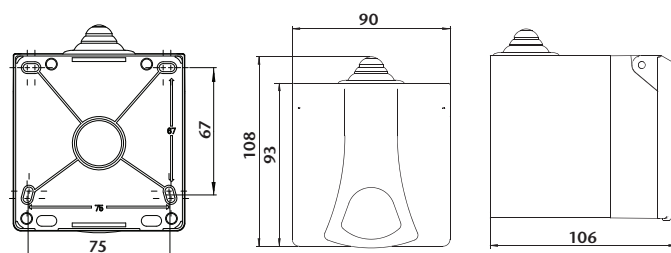
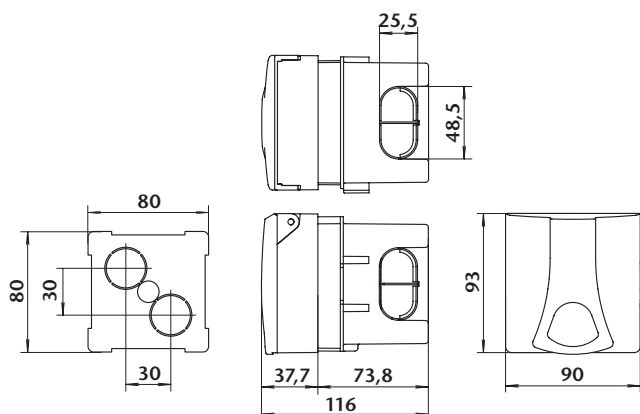
Type / mm	A	B	D	ød1	E	I	Gland
IZG 1632	146	90	78,5	4,8	65,6	32	Pg 16
IZG 1643	148	92	78,5	4,8	65,6	32	Pg 16
IZG 1653	148	96	87	4,8	65,6	32	Pg 16
IZG 3232	173	111	92,5	5,2	71	35,5	Pg 21
IZG 3243	173	111	92,5	5,2	71	35,5	Pg 21
IZG 3253	175	114	100	5,2	71	35,5	Pg 21

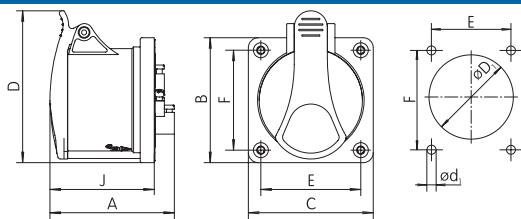


Note: Types marked with "P" have a pilot contact.

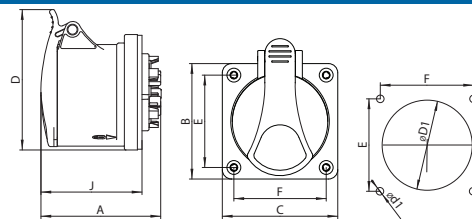


Type / mm	A	B	C	D	E	F	G
IZVZ 1632	182	113	90	45	55	71	67
IZVZ 1643	182	113	90	45	55	71	67
IZVZ 1653	182	113	90	45	55	71	67
IZVZ 3232	193	118	90	45	55	71	67
IZVZ 3243	193	118	90	45	55	71	67
IZVZ 3253	193	118	90	45	55	71	67

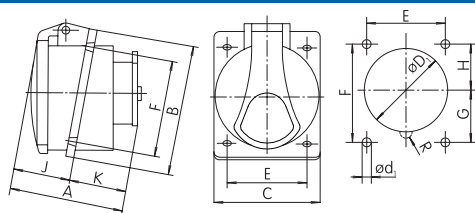


17 IERN / 16A, 32A


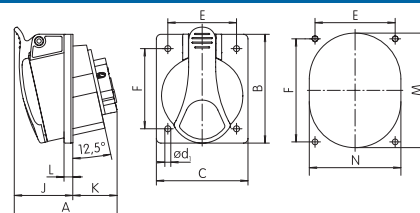
Type / mm	A	B	C	øD1	ød1	D	E	F	J
IERN 1632	73	75	75	57	4	88	60	60	61
IERN 1643	74	75	75	57	4	88	60	60	62
IERN 1653	75	75	75	57	4	91	60	60	63
IERN 3232	91	75	75	64	4	96	60	60	72
IERN 3243	91	75	75	64	4	96	60	60	72
IERN 3253	91	75	75	64	4	103	60	60	75

18 IERB / 16A, 32A


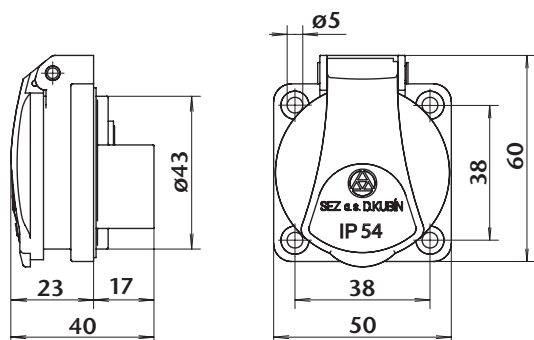
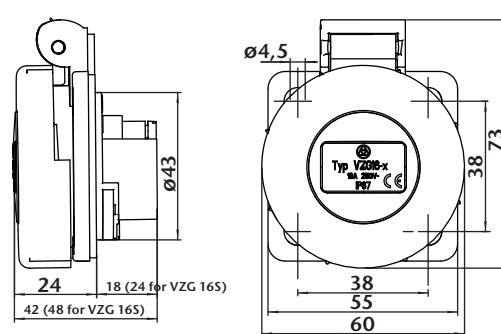
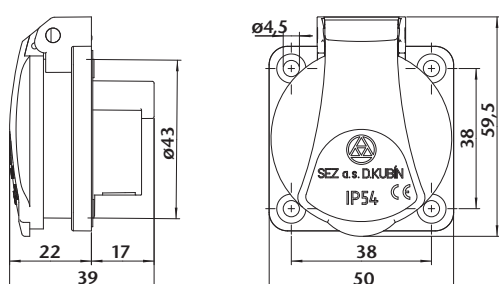
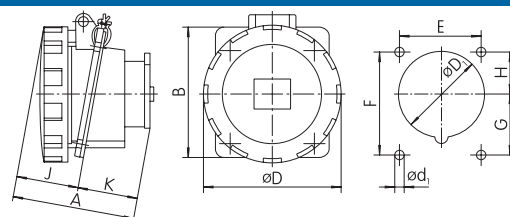
Type / mm	A	B	C	øD1	ød1	D	E	F	J
IERB 1653	78	75	75	57	4	91	60	60	66
IERB 3253	97	75	75	64	4	103	60	60	78

19 IE / 16A, 32A


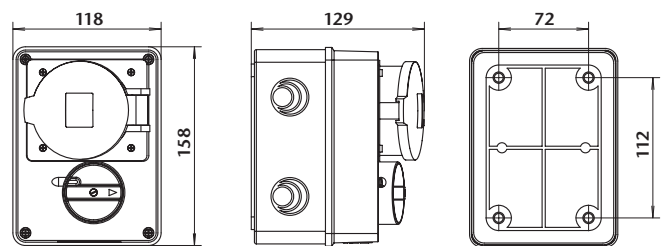
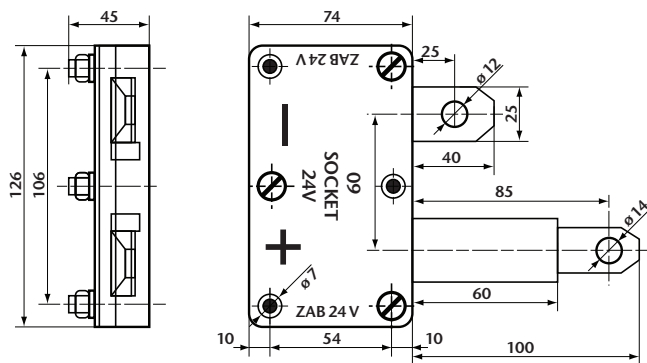
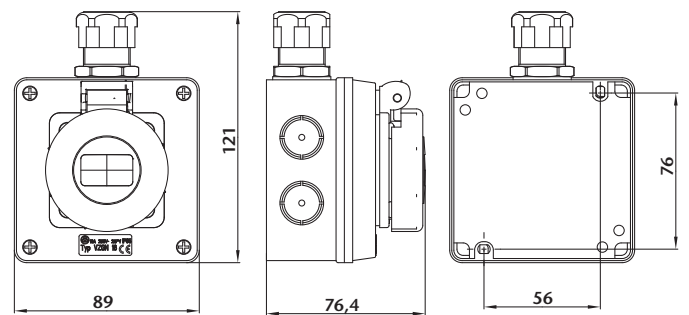
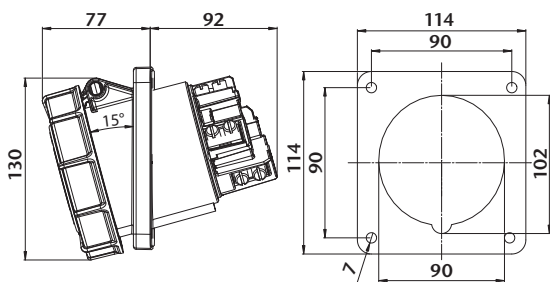
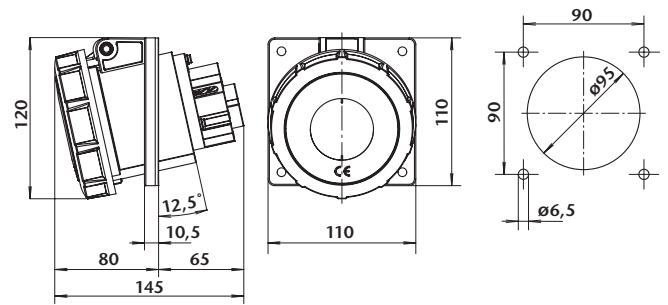
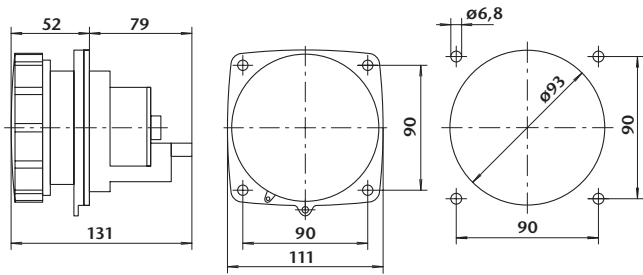
Type / mm	A	B	C	øD1	ød1	E	F	G	H	J	K
IE 1632	61	85	75	56	5,5	60	60	30	30	32	29
IE 1645	72	85	75	62	5,5	60	60	31	29	33	39
IE 3232	84	95	80	68	5,5	60	70	38	32	42	42
IE 3245	84	95	80	68	5,5	60	70	38	32	42	42

20 IEN, IEB / 16A, 32A


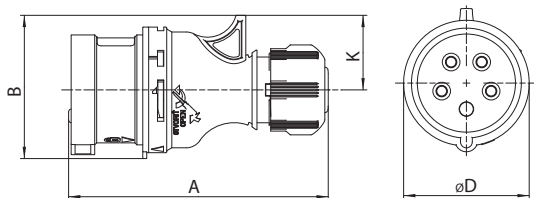
Type / mm	A	B	C	ød1	J	E	F	K	L	M	N
IEN 1643	73	85	75	5,2	42	60	60	31	7	66	58
IEN 1653	75	85	75	5,2	43	60	60	32	7	72	64
IEB 1653	85	85	75	5,2	42	60	60	43	7	72	64
IEN 3243	90	95	80	5,2	52	60	70	38	8	78	68
IEN 3253	90	95	80	5,2	52	60	70	39	8	84	70
IEB 3253	106	95	80	5,2	52	60	70	55	8	84	70

21 VZ / 16A

22 VZG / 16A

23 VZ 48 / 10A

24 IEG / 16A, 32A


Type / mm	A	B	øD	øD1	ød1	E	F	G	H	J	K
IEG 1632	78	85	75	56	5,5	60	60	30	30	39	39
IEG 1643	80	85	78	62	5,5	60	60	31	29	41	39
IEG 1653	81	85	87	65	5,5	60	60	31	29	42	39
IEG 3232	89	95	92,5	68	5,5	60	70	38	32	47	42
IEG 3243	89	95	92,5	68	5,5	60	70	38	32	47	42
IEG 3253	91	95	100	74	5,5	60	70	36	34	49	42

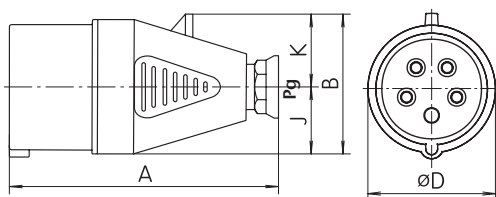


31 IVN, ISB / 16A, 32A



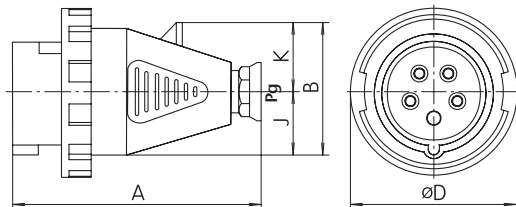
Type / mm	A	B	ØD	K					
IVN 1632	126	64	64	32					
IVN 1643	132	66	64	34					
IVN, IVB 1653	132	73	64	38					
IVN 3232	160	79	73	41					
IVN 3243	160	79	73	41					
IVN 3253	160	87	73	45					
IVB 3253	160	87	73	45					

33 IV / 16A, 32A



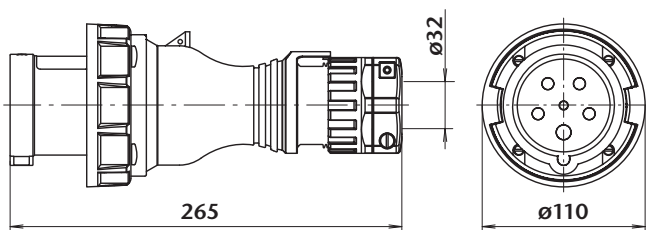
Type / mm	A	B	ØD	J	K	Gland			
IV 1645	129	67,5	65	32,5	35	Pg 16			
IV 3245	154	77	72	36	41	Pg 21			

35 IVG / 16A, 32A

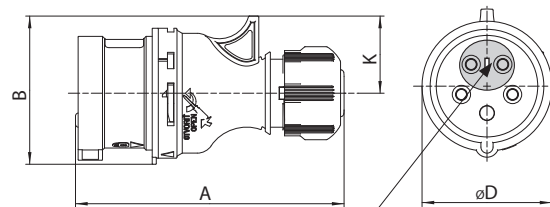


Type / mm	A	ØD	J	K	Gland				
IVG 1632	123	70	28,5	31	Pg 16				
IVG 1643	129	78	32,5	35	Pg 16				
IVG 1653	129	87	32,5	39	Pg 16				
IVG 3232	154	92,5	36	41	Pg 21				
IVG 3243	154	92,5	36	41	Pg 21				
IVG 3253	154	100	36	46	Pg 21				

37 IVGN / 63A



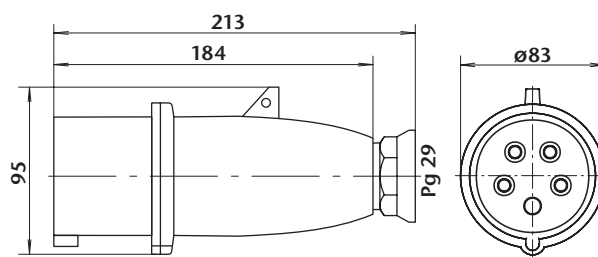
32 IVNO / 16A, 32A



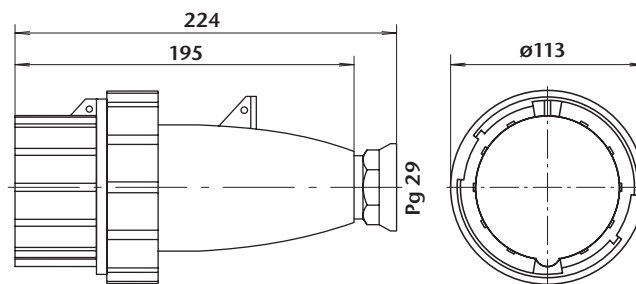
Type / mm	A	B	ØD	K					
IVNO 1653	132	73	64	38					
IVNO 3253	160	87	73	45					

Note: Pin position can be changed by turning the screwdriver in 180 degrees and achieved the phase change.

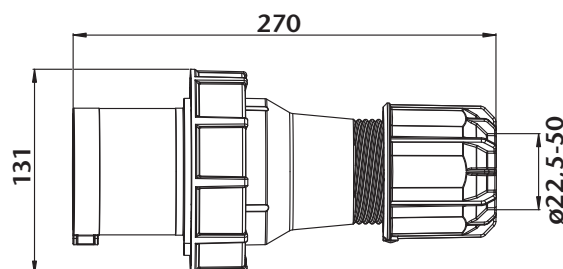
34 IV / 63A

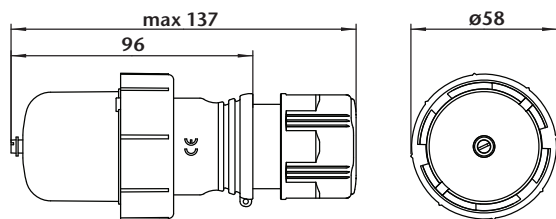


36 IVG / 63A

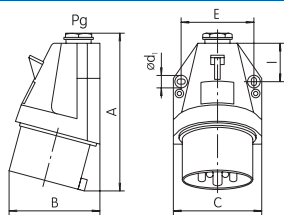


38 IVGN / 125A



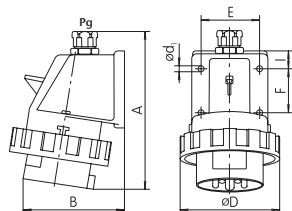


41 IP / 16A, 32A



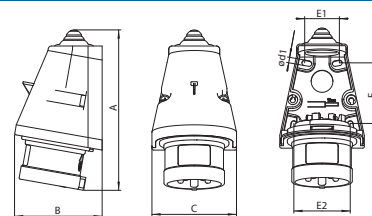
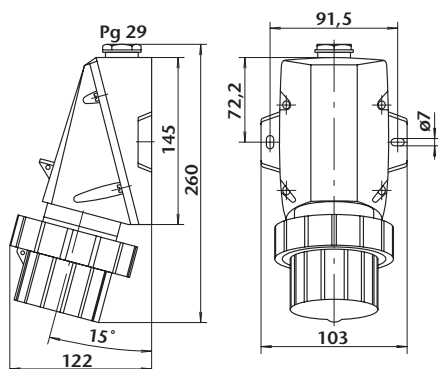
Type / mm	A	B	C	ød1	E	I	Gland
IP 1645	126	90,5	75	5,2	60	29,5	Pg 16
IP 3245	147	105	82	5,2	67	34	Pg 21

43 IPG / 16A, 32A



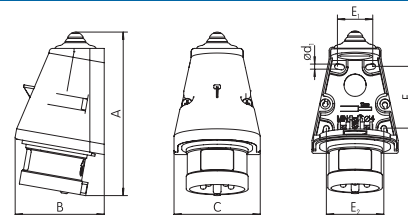
Type / mm	A	B	ød1	øD	E	F	I	Gland
IPG 1632	140	74	4,8	70	45	30	15	Pg 16
IPG 1643	143	83	5,2	78	50	30	17,5	Pg 16
IPG 1653	143	85	5,2	87	50	30	17,8	Pg 16
IPG 3232	172	95	5,2	92,5	58	40	20	Pg 21
IPG 3243	172	98	5,2	92,5	58	40	20	Pg 21
IPG 3253	172	101	5,2	100	58	40	20	Pg 21

45 IPG / 63A



Type / mm	A	B	C	ød1	E1	E2	F
IPN 1632	147	81	78	5	30	53	58
IPN 1643	146	81	78	5	30	53	58
IPN, IPB 1653	146	81	78	5	30	53	58
IPN 3232	168	95	88	5	35	61	60
IPN 3243	168	95	88	5	35	61	60
IPN 3253	169	94	89	5	40	62	63
IPB 3253	169	94	89	5	40	62	63

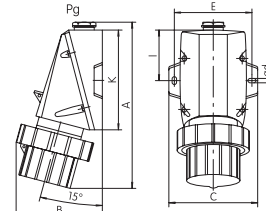
42 IPNO / 16A, 32A



Type / mm	A	B	C	ød1	E1	E2	F
IPNO 1653	146	81	78	5	30	53	58
IPNO 3253	169	94	89	5	40	62	63

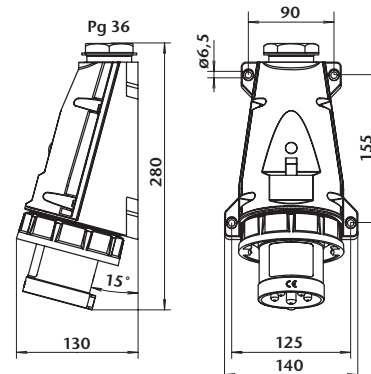
Note: Pin position can be changed by turning the screwdriver in 180 degrees and achieved the phase change.

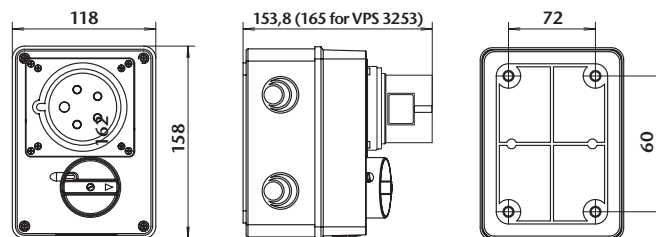
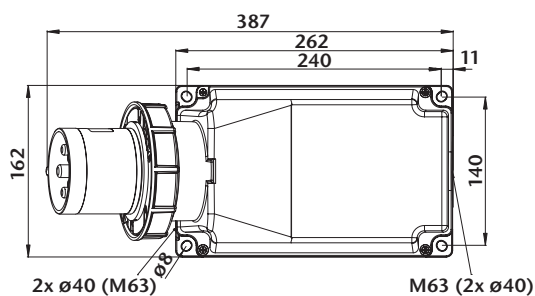
44 CPG / 16A, 32A



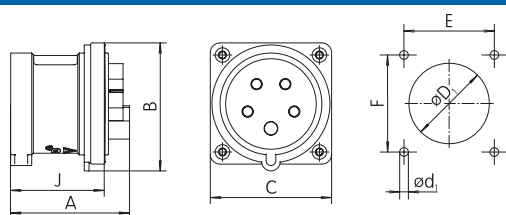
Type / mm	A	B	C	ød1	E	I	K	Gland
CPG 1632	170	83	86	4,8	74	50,7	101,4	Pg 16
CPG 3232	204	102	93,5	5,8	81	60,5	121	Pg 21

46 IPGN / 63A



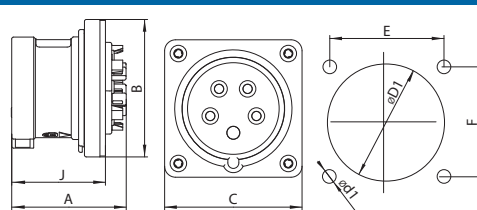


49 IRRN / 16A, 32A



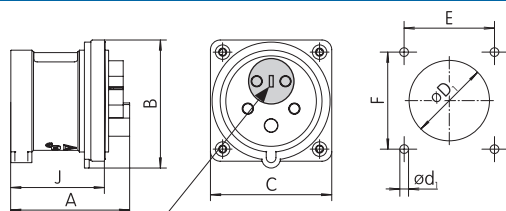
Type / mm	A	B	C	ød1	øD1	E	F	J			
IRRN 1632	67	75	75	4	57	60	60	48			
IRRN 1643	66	75	75	4	57	60	60	48			
IRRN 1653	66	75	75	4	57	60	60	48			
IRRN 3232	74	75	75	4	64	60	60	58			
IRRN 3243	74	75	75	4	64	60	60	58			
IRRN 3253	74	80	75	4	64	60	60	58			

50 IRRB / 16A, 32A



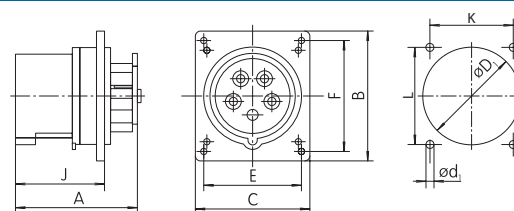
Type / mm	A	B	C	ød1	øD1	E	F	J			
IRRB 1653	63	75	75	4	57	60	60	51			
IRRB 3253	80	79	75	4	64	60	60	61			

51 IRRNO / 16A, 32A



Type / mm	A	B	C	ød1	øD1	E	F	J			
IRRNO 1653	66	75	75	4,2	57	60	60	48			
IRRNO 3253	73	80	75	4,2	64	60	60	58			

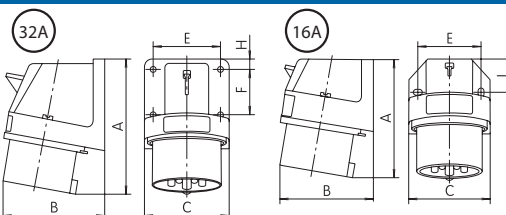
52 IRR / 16A, 32A



Type / mm	A	B	C	ød1	øD1	E	F	J	K	L	
IRR 1653	80	85	75	4	65	64	73	58	60	60	
IRR 3253	96	95	80	6	71	70	84	72	60	70	

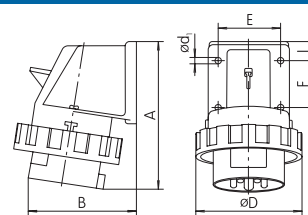
Note: Pin position can be changed by turning the screwdriver in 180 degrees and achieved the phase change.

53 IR / 16A, 32A

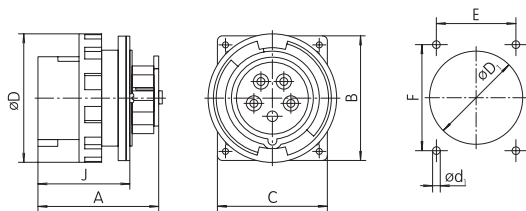


Type / mm	A	B	C	E	F	I				
IR 1632	91	68	57,2	45		20				
IR 1643	97	77	65,2	50		27,5				
IR 1653	98	79	65,2	50		27,5				
IR 3232	128	88	72,5	58	40	9				
IR 3243	128	88	72,3	58	40	9				
IR 3253	129	90	72,3	58	40	9				

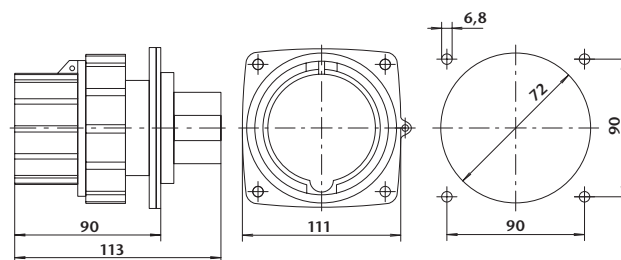
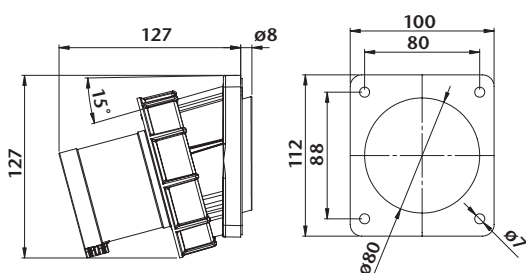
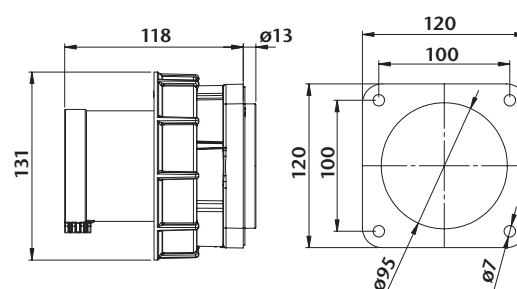
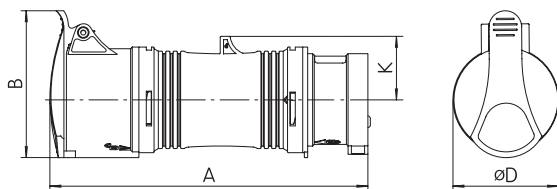
54 IRG / 16A, 32A



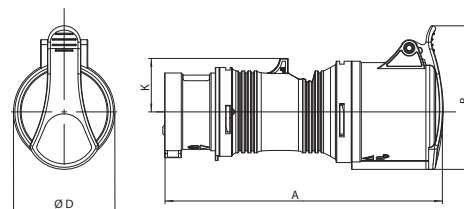
Type / mm	A	B	D	ød1	E	F	I			
IRG 1632	114	74	70	4,8	45	30	15			
IRG 1643	119	83	78	5,2	50	30	17,5			
IRG 1653	119	85	87	5,2	50	30	17,5			
IRG 3232	142	98	92,5	5,2	58	40	20			
IRG 3243	142	98	92,5	5,2	58	40	20			
IRG 3253	142	101	100	5,2	58	40	20			

55 IRGR / 16A, 32A


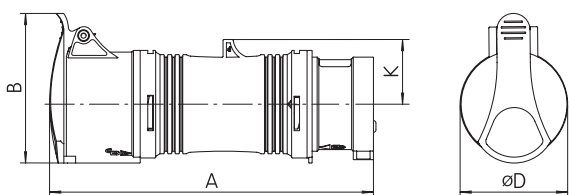
Type / mm	A	B	C	Ød1	ØD	ØD1	E	F	J
IRGR 1653	80,5	85	75	4	87	65	64	73	59
IRGR 3253	96	95	80	4	100	71	70	84	72

56 IRG / 63A

57 IRGN1 / 63A

58 IRGN / 125A

59 Adapter A 5p/4p


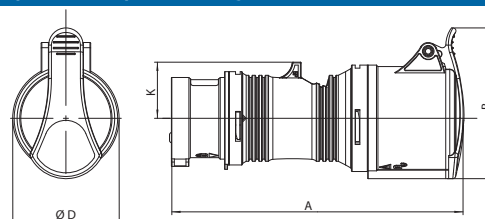
Type / mm	A	B	ØD	K
A 1653/43	180	82	64	39
A 3253/43	235	96	73	45

60 Adapter A 16-32/x


Type / mm	A	B	ØD	K
A 16-32/4	198	96	65	34
A 16-32/5	200	103	73	37

61 Reversing adapter RA


Type / mm	A	B	ØD	K
RA 1643	178	82	56	35
RA 1653	180	89	64	39
RA 3243	235	96	65	41
RA 3253	237	104	73	45

62 Adapter with a phase changer


Type / mm	A	B	ØD	K
A 1653/43-0	180	82	64	39
A 3253/43-0	235	96	73	45
A 16-32/5-0	200	103	73	37

Note: Pin position can be changed by turning the screwdriver in 180 degrees and achieved the phase change.

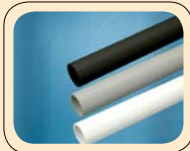
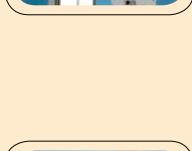




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