IGNITION TRANSFORMERS

TRASFORMATORI D'ACCENSIONE



COFI点火变压器

COFI ignitions

COFI点火变压器系列



产品目录

COFI点火变压器产品系列

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COMPANY

AZIENDA

产品历史：

意大利点火变压器专家

超过40年的专业生产厂家

COFI, since 1974

The company was founded in 1974 with the aim of applying an innovative technology in the production of transformers for the ignition of gas burners and diesel. The application of this technology has revolutionized traditional production techniques for the isolation of high voltages, improving the electrical properties and durability, increasing the mechanical properties and while reducing the environmental impact of the materials used in the isolation.
The company has grown steadily investing in the search for solutions, materials and equipment.

Technology

The technology applied to the construction of high-voltage insulation of the highest quality, is the driving force behind the company and represents a breakthrough in this area.
The high insulation is obtained by a combined system of encapsulating low pressure of thermosetting epoxy resin and the use of technology to polyester film in the insulation of the coils.
The benefits of this innovative combination are manifold:

- Mechanical properties and excellent aesthetic
- Electrical properties of unquestionable superiority
- Resistance to high temperatures superior to other materials traditionally applied
- Heat dissipation extremely effective
- Excellent resistance to chemicals and fuel oils
- Elimination of harmful materials from the manufacturing process resulting in volatile reducing environmental impact.

This production process has shown its validity technology both conceptually and in practice, with millions of applications, used for many years by leading manufacturers internationally recognized.
The policy of the company throughout its history has always been directed towards the achievement of total quality is constructive and aesthetic, paying particular attention to the supply of top quality materials and following the technological changes constantly.

R&D

COFI has always invested heavily in research and development, while continuing to improve existing products and to find new solutions to the increasingly demanding market. In recent years COFI products range has been able to benefit from this ongoing research with the release of several new and innovative products in the field of ignitions, making only the width of the range in this area. COFI is also able to provide a customized product for any need, our technical department is available to test the feasibility and to perform sampling of non-standard specifications.
COFI constructs in series ionizers transformers, demagnetizers, voltage doublers, equipment for fencing and other areas that do not belong to the world of ignitions where the construction of the transformer is sometimes considerably distant from the standard. ionizers also works on the development of sensors and transducers that produce using our technology.
COFI is also active in the field of fuel cells with important research projects in the field of renewable energy in collaboration with important Italian and foreign universities, earning critical patents in this field.

Service

The optimal application of the high-voltage requires a careful study of the accessories to guarantee a certainty of ignition performance, therefore the maximum attention is dedicated to the study of functions of the cables and connections of the protections of the outputs of high tension, with the realization of parts that integrate various solutions in a single cable, eliminating assembly difficulties and uncertainties of operation.
The company also takes great care of the special needs of the customer, realizing also accessories specification, studying the effectiveness and optimization.
Relevant in this regard is the EMC measures laboratory with the latest generation of equipments for performing measurements of electromagnetic compatibility according to EN55014 standards, and the subsequent study of the details necessary to make compatible the installation of the transformer.
Most of the products are certified by the most representative organizations in Europe such as VDE, IMQ and SEV, as well as UL and CSA for the American market.





COFI, dal 1974

L'azienda è stata fondata nel 1974 con l'obiettivo di applicare una tecnologia innovativa nella produzione dei trasformatori per l'accensione di bruciatori a gas ed a gasolio. L'applicazione di questa tecnologia ha rivoluzionato le tradizionali tecniche produttive per l'isolamento delle alte tensioni, migliorandone le proprietà elettriche e la durata nel tempo, incrementando le proprietà meccaniche e riducendo nel contempo l'impatto ambientale dei materiali impiegati nell'isolamento.
L'azienda è cresciuta costantemente investendo nella ricerca di soluzioni d'avanguardia, nei materiali e nelle attrezzature.

Tecnologia

La tecnologia applicata alla costruzione di prodotti di alta tensione con isolamento di prima qualità, è il motore trainante dell'azienda e rappresenta una svolta in questo settore.
L'altissimo isolamento è ottenuto mediante un sistema combinato di incapsulaggio a bassa pressione di resina epossidica termoindurente e l'uso della tecnologia a film poliestere nell'isolamento delle bobine.
I benefici apportati da questa combinazione innovativa sono molteplici:

- proprietà meccaniche ed estetiche eccellenti
- proprietà elettriche di indiscutibile superiorità
- resistenza alle alte temperature superiori agli altri materiali tradizionalmente applicati
- dissipazione del calore estremamente efficace
- ottima resistenza ad agenti chimici ed oli combustibili
- eliminazione dal processo produttivo dei materiali dannosi volatili con conseguente riduzione dell'impatto ambientale.

Questo processo produttivo ha mostrato la sua validità tecnologica sia sul piano concettuale che sul piano pratico, con milioni di pezzi prodotti, utilizzati da molti anni dai più importanti produttori internazionalmente riconosciuti.
La politica dell'azienda nel corso della sua storia è sempre stata indirizzata verso il raggiungimento di una qualità totale sia costruttiva che estetica, curando in particolar modo l'approvvigionamento di materiali di prima qualità e seguendone costantemente le evoluzioni tecnologiche.

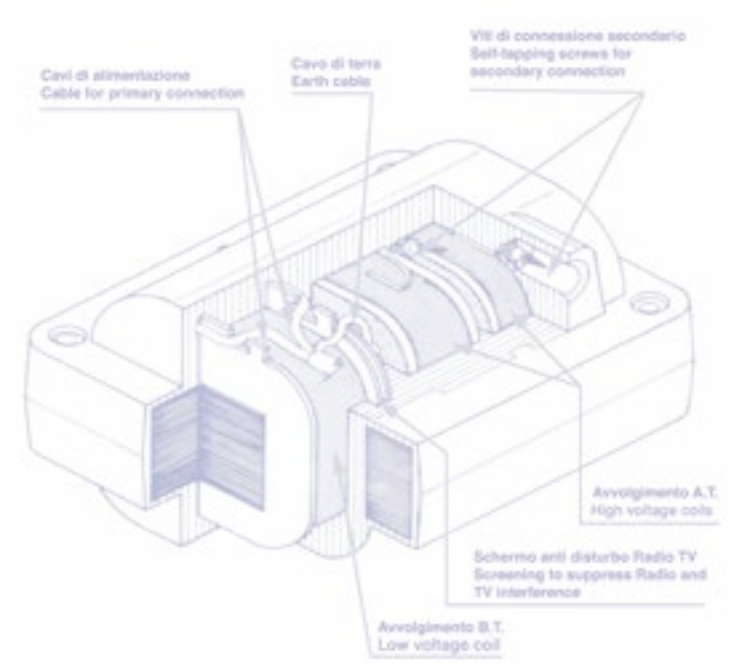
Ricerca

Da sempre COFI investe notevoli risorse in ricerca e sviluppo, continuando a migliorare i prodotti esistenti ed a trovare nuove soluzioni per il mercato sempre più esigente. Negli ultimi anni la gamma di prodotti COFI ha potuto beneficiare di questa continua attività di ricerca con l'uscita di numerosi nuovi ed innovativi prodotti nel campo delle accensioni, rendendo unica l'ampiezza di gamma in questo settore. COFI inoltre è in grado di fornire un prodotto personalizzato per qualsiasi necessità, l'ufficio tecnico è a disposizione per verificare la fattibilità e per eseguire campionature di specifiche non standard.
COFI costruisce in serie trasformatori per ionizzatori, smagnetizzatori, duplicatori di tensione, apparecchiature per la recinzione e altri settori non appartenenti al mondo delle accensioni dove la costruzione del trasformatore è a volte sensibilmente lontana dallo standard. COFI collabora inoltre allo sviluppo di sensori e trasduttori che produciamo utilizzando la nostra tecnologia.
COFI è anche attiva nel campo delle fuel cell con importanti progetti di ricerca nel campo delle energie rinnovabili in collaborazione con importanti università italiane e straniere, ottenendo anche importanti brevetti in questo campo.

Servizio

L'applicazione ottimale dei prodotti di alta tensione richiede un attento studio degli accessori a garanzia di una certezza delle prestazioni di accensione, pertanto viene dedicata la massima attenzione allo studio delle funzionalità dei cavi delle connessioni e delle protezioni delle uscite di alta tensione, con la realizzazione di particolari che integrano varie soluzioni in un unico cavo, eliminando difficoltà di montaggio ed incertezze di funzionamento.
L'azienda cura molto anche le esigenze particolari del cliente, realizzando anche accessori su specifica, studiandone l'efficacia e l'ottimizzazione.
Rilevante a questo riguardo , è il laboratorio di misure EMC dotato di apparecchiature dell'ultima generazione per l'effettuazione delle misure di compatibilità elettromagnetica secondo le Norme EN55014, e il conseguente studio dei particolari necessari a rendere compatibile l'installazione del trasformatore.
La maggior parte dei prodotti sono certificati dagli enti europei più rappresentativi come VDE, IMQ e SEV così come UL e CSA per il mercato nord americano.





A COMPANY DRIVEN BY TECHNOLOGY

TECNOLOGIA:
IL MOTORE
TRAINANTE

Construction of high-voltage transformers

The COFI transformers are manufactured with top-quality choice materials in accordance with CEI EN 61558-2-3. The copper wire used for the secondary circuit winding is H 180°C Class, while the wire for the primary circuit winding is H 200°C Class. The insulation between layers in the high-voltage coils is ensured by a polyester film with high dielectric constant. The transformer is then encapsulated with Araldite, a thermosetting epoxy resin resistant to a temperature of over 180°C, that offers it high mechanical resistance together with excellent dielectric properties, resistance to fuel oils and to chemical agents, very good thermal dissipation and - last but not least – elimination of harmful volatile materials from the production cycle. Moreover, the materials enable a surface finish that is comparable with metal. All the other components have been chosen from the best available on the market, taking into account the best resistance to temperature in order to ensure indestructibility even in the most severe duty conditions.

Encapsulation

The company has developed over the years different systems of encapsulation with epoxy resins, to obtain the maximum level of insulation of different applications, always taking advantage of the best available technology on the market. In inductive transformers are used thermosetting epoxy resins to transfer injection, now widely used in the automotive industry. Electronic transformers are potted with epoxy resin under a very high vacuum. The line, fully automated, guarantees a constant quality on a large scale. Both systems offer exceptional performance and longevity of the product. The company is as always at the forefront in the isolation of high voltages and in production technologies.

Operation cycles

The transformer can operate, depending on the type, on continuous or intermittent duty in accordance with the technology applied to the burner and the control device.
The transformers at intermittent duty can work at different inserting time, depending on the type: ED=25% on 4' means that the transformer can be switched ON for 1 min. and then shall be OFF for at list 3 min. Total cycle time is 4 min. So ED=33% on 3' means that the transformer work 1 min. ON and 2 min. OFF.
ED=100% means that the transformers can operate continuously.
The electronic transformers are designed to work with ambient temperatures up to 60°C, the inductive one at 35°C.

Electromagnetic Compatibility (EMC)

CE Marking made it mandatory for all manufacturers of consumer and industrial machines to comply with the European directives on low voltage 2006/95/CE and on electromagnetic compatibility 2004/108/CE. The discharge from the burner causes electromagnetic disturbance, both conducted and radiated. The disturbance propageates differently according to the set-up of the machine's electric connections or for instance the different opening of the terminals or the different positioning of the transformer in the machine. COFI laboratory found a general solution to help the users of transformers to not exceed the curves provided in the CEI ED 55014-1 standards.

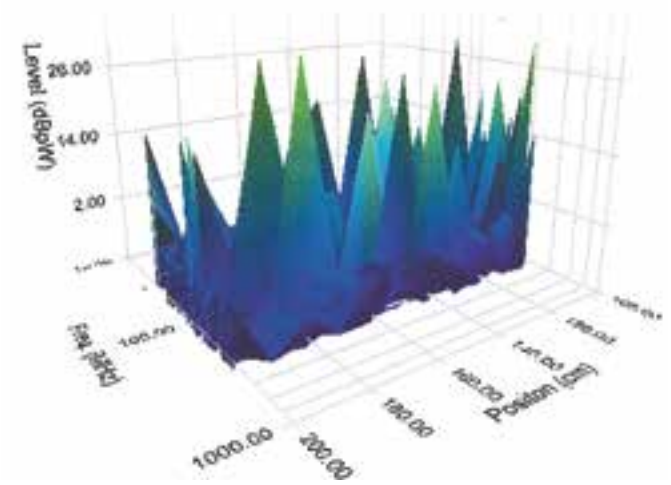
Final testing

All COFI transformers undergo strict final testing before being packed in order to ensure trouble-free operation and almost unlimited durability for the transformers that pass the test.

Customized supply

In some applications, the input values (foreign countries) and the output values of the standard transformer as shown in our catalogue must be changed.
The personnel in our technical department checks if this can be done, and produces samples with non-standard features. We mass-produce transformers for ionizers, demagnetizers, voltage doublers, devices for fencing, and other fields apart from ignition devices, where the transformer often requires special features. We also develop sensors and transducers, which we manufacture, with our technology.

* Available certification |
Certificazioni disponibili



* The indicated certifications are available on some models depending on the target market and the type of product, and are indicated in the product tables for each series. On request, it can be extended to models not currently approved. All products are still designed and built according to the standards IEC.

Le certificazioni indicate sono disponibili su alcuni modelli a seconda del mercato di destinazione e del tipo di prodotto, e sono indicate nelle tabelle prodotto di ciascuna serie. Su richiesta possono essere estese anche su modelli non attualmente omologati. Tutti i prodotti sono comunque progettati e costruiti secondo le normative standard IEC.



高压变压器结构

Cofi根据CEI EN 61558-2-3的要求选择最优质的材料生产制造变压器。初级电路绕线组选用的是200℃（C级）电磁线，而二级电路绕线组使用180℃（H级）电磁线。高压线圈的表层涂有带高介电的聚脂薄膜以确保线圈的绝缘效果。使用耐温度度超过180℃的热固性环氧树脂粘合剂Araldite封装的变压器，具有高机械强度、高介电以及耐油和化学介质、散热性能，并且能消除在生产过程中产生的挥发性有害物质。此外，这些材料能够实现能够媲美金属的表面光洁度。为实现即使在最严苛的工作条件下的稳定性，其他所有组件均使用了目前市场中最具耐温性能的材料。

Incapsulaggio

L'azienda ha sviluppato negli anni diversi sistemi di incapsu-laggio con resine epossidiche, per ottenere il massimo livello di isolamento su differenti applicazioni, sfruttando sempre la miglior tecnologia disponibile sul mercato. Nei trasformatori induttivi si utilizzano resine epossidiche termoindurenti ad iniezione a transfer, oggi ampiamente utilizzate nel settore automobilistico. Nei trasformatori elettronici viene utilizzato un sistema epossidico ad altissimo vuoto, completamente automatizzato che garantisce una qualità costante su larga scala.
Entrambi i sistemi garantiscono prestazioni e longevità del prodotto eccezionali. L'azienda è come sempre all'avanguardia nell'isolamento delle alte tensioni e nelle tecnologie di produzione.

Cicli di funzionamento

Il funzionamento del trasformatore può essere continuo o intermittente a seconda del modello e della tecnologia applicata al bruciatore ed al dispositivo di controllo utilizzato.
I trasformatori a servizio intermittente, possono lavorare con diversi tempi di inserzione, a seconda del modello: ED=25% su 4' significa che il trasformatore può restare acceso per 1 minuto, quindi deve restare spento per almeno 3 minuti. Il ciclo totale, in questo caso, sarà di 4 minuti. Così un ED=33% su 3' significa che il trasformatore può restare acceso per 1 minuto e spento per almeno 2 minuti. ED=100% significa che il trasformatore può lavorare a servizio continuo.
I trasformatori elettronici sono costruiti per lavorare con temperature ambiente fino a 60°C, gli induttivi 35° C.

Compatibilità elettromagnetica

Con la marcatura CE si è reso obbligatorio per i costruttori di macchine civili e industriali il rispetto delle direttive europee sulla bassa tensione 2006/95/CE e sulla compatibilità elettromagnetica 2004/108/CE.
La scarica elettrica soffiata dal bruciatore è causa di disturbi elettromagnetici condotti e irradiati.
I disturbi si propagano in modo diverso a seconda di come sono cablati i vari collegamenti della macchina o a causa ad esempio della diversa apertura degli elettrodi, o del diverso posizionamento del trasformatore nella macchina.
Il laboratorio COFI ha trovato una soluzione generale per aiutare gli utilizzatori dei trasformatori a rimanere al di sotto delle curve dettate dalla norma CEI EN 55014-1.

Collaudo

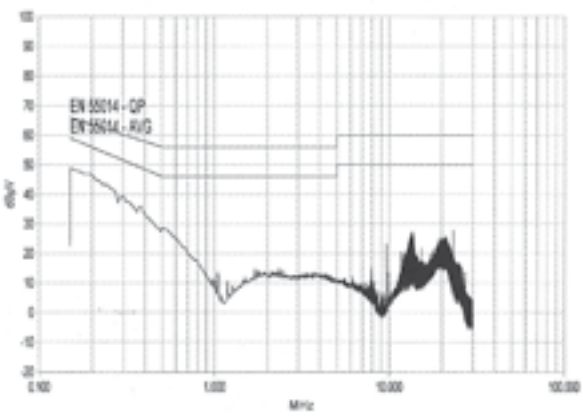
Tutti i trasformatori COFI, prima di essere imballati, subiscono un severo collaudo volto ad eliminare qualsiasi incertezza di funzionamento, assicurando così una durata pressoché illimitata del trasformatore che ha superato il collaudo.

Forniture particolari

Per alcune applicazioni i valori sia d'ingresso (paesi stranieri) che d'uscita del trasformatore devono essere cambiati dai tipi di serie a listino. Il nostro ufficio tecnico è a disposizione per verificare la fattibilità e per eseguire campionature di specifiche non standard.
Costruiamo in serie trasformatori per ionizzatori, smagnetizzatori, duplicatori di tensione, apparecchiature per la recinzione e altri settori non appartenenti al mondo delle accensioni dove la costruzione del trasformatore è a volte sensibilmente lontana dallo standard. Collaboriamo allo sviluppo di sensori e trasduttori che produciamo utilizzando la nostra tecnologia.







ELECTRONIC IGNITION TRANSFORMERS

TRANSFORMATORI ELETTRONICI

Series of transformers designed with the electronic technology able to produce a discharge of high potential in high frequency (10-20kHz). There are several electronic configurations, from simple and more economical one, to the most sophisticated versions of high power and continuous operation with temperature and current control, for gas applications (1 pole) and oil application (2 poles). The power supply voltages ranging is from 100 Vac to 400 Vac, 12 and 24 Vdc. Thanks to the complete potting of transformer with premium resins, our electro-nic products enable safe operation even in extreme environmental conditions, from -20 ° C to + 60 ° C and on some models it is allowed to use it at also - 40 ° C or + 90 ° C. Numerous configu-rations, with inputs / outputs and dimensions, are available to meet international stan-dards, making available a range of products suitable for any installation. The company also manufactures pro-ducts tailored to the specific customer applications. All products are filtered inter-nally against electromagnetic disturbances. The range of products suitable for use in the US market is approved (UL Recognized Component), while models for the Europe-an market are IMQ approved according to the product standard for burners EN 61558-2-3.

电子式系列变压器能够在高频率(10-20khz)的情况下产生高电位放电。从基本型，到经济型，乃至最为复杂强大的大功率、可连续运转且带温度控制、电流控制的单电极燃气设备和双电极燃油设备，电源电压范围从12Vdc 到24Vdc、100Vdc到400Vdc ，型号多样，功能齐全。由于使用优质树脂粘合剂灌封变压器，因此即使在极恶劣的环境条件下（-20℃--+60℃），产品依然能正常安全的运转，部分产品甚至在零下40℃--90℃依然能正常运行。大部分的产品具有不同的输入输出口以及尺寸设置，能够满足全球不同地区的所有不同安装标准，同时也可根据不同客户需求进行定制生产。所有产品具有防电磁干扰能力。本系列变压器已通过美国市场的（UL认证部件标识）认证并已获得欧洲IMQ认证。

TRK系列	**标准型**
TRJ 系列	**Best Price** | 最优惠
TRH系列	**High power** | 大功率
TRL 12 e 24 Vdc 系列	**High power** | 大功率
TRM 24 Vdc 系列	**Middle power** | 中功率
TRW 系列	**Condensing Boilers** | 冷凝式锅炉
TRJ 3 系列	**Smart igniter** | 智能型点火器 **The power of an intermittent transformer with the guarantee of a continuous one**

Applications | 适用范围

The electronic ignition transformer is suitable to be applied to all kind of oil and gas burners, wall hang boilers, hot water high pressure cleaners and anti-mosquito equipment. These applica-tions are indicated by a symbol beside each type of product as follows.

电子式变压器适用于所有燃油燃气燃烧机、挂墙式锅炉、热水高压清洁机以及驱蚊设备。具体请参考下面所列：

Oil Burners

Bruciatori a gasolio



Gas Burners

Bruciatori a gas



Hot water high pressure cleaners

Idropulitrici



Inlets | 接入口

Plug D

D插头



Plug K

K插头



Outlets | 输出口

H plug, Horizontal output plug, Ø 4mm

H插头

水平输出，0.4mm



V plug, Vertical output plug, Ø 4mm (13.5 mm deep)

V插头



垂直输出，0.4mm（埋入深度13.5mm）

INDUCTIVE TRANSFORMERS

TRANSFORMATORI INDUTTIVI

Applications | Applicazioni

The conventional ignition transformer is suitable to be applied to all kind of oil and gas burners, hot water high pressure cleaners and anti-mosquito equipment. These application are indicated by a symbol beside each type of product as follows.

Trasformatore d'accensione convenzionale personalizzabile in numerose versioni per ogni tipo di applicazione, dai bruciatori alle idropulitrici, dalle zanzariere ai generatori di ozono. Disponibile in tensioni e frequenze di alimentazione per tutti i paesi del mondo. Il funzionamento a 50/60Hz ne garantisce la funzionalità anche con cavi di alta tensione molto lunghi.

Oil Burners

Bruciatori a gasolio



Gas Burners

Bruciatori a gas



Hot water high pressure cleaners

Idropulitrici



Anti-mosquito equipment

Zanzariere



Inlets | Ingressi

These icons represent all the different kind of primary connetion for each product

Queste icone rappresentano i tipi di prese di ingresso disponibili per ogni singolo prodotto

Standard buried cable L=380mm

Cavo annegato standard L=380mm



COFI plug

Presa per spina Cofi



Triangle plug

Presa per spina Triangolo



Outlets | Uscite

These icons represent all the different kind of connetion for each product

Queste icone rappresentano i tipi di uscite in alta tensione disponibili per ogni singolo prodotto

Code SP, plug, Ø 4 (21.5 mm deep) eccentric hole

Cod SP, Spina Ø 4 (prof. 21.5mm)



Code SPPRO, hole Ø 6, plug Ø 4 for cable Ø 5.2 (35 mm deep)

Cod SPRO, Foro Ø 6, Spina Ø 4 (prof. 35mm) per cavo Ø 5,2



Code VIMAN, self-tapping screw with sleeve (25 mm deep)

Cod VIMAN, Vite autofilettante con manicotto (prof. 25mm)



Code SPMAN, plug Ø 4 with sleeve (23 mm deep)

Cod SPMAN, Spina Ø 4 con manicotto (prof. 23mm)



Code SPRAS, flush plug, Ø 4 (13.5 mm deep)

Cod SPRAS, Spina a raso Ø 4 (prof. 13.5mm)



Code VIRAS, flush self-tapping screw (18 mm deep)

Cod VIRAS, Vite autofilettante a raso (prof. 18mm)



Classic wound transformer with ferromagnetic core, covered with thermosetting epoxy resin which gives it a metallic appearance and at the same time highly insulating. Produced for over 40 years in over 10 million pieces, are designed for ignition applications at 360°, from gas and oil burners to the high-pressure washers machines and anti-mosquito equipment, in addition to high-voltage and ozone generators. They are available in 4 product families depending on the power from the smaller Z, the small E, the standard S, up to the great power G. The principle of operation at 50 or 60 Hz makes it suitable for applications where the cable length are longer than 2m. Available in several versions of inlets and outlets combined with input voltages and output currents fully customizable.

Classico trasformatore avvolto con nucleo ferromagnetico, rivestito in resina epossidica termoindurente che gli conferisce un aspetto metallico ed al tempo stesso altamente isolante. Prodotto da oltre 40 anni in oltre 10milioni di pezzi, sono progettati per applicazioni di accensione a 360° dai bruciatori a gas e Olio alle idropulitrici e zanzariere, oltre a generatori di alta tensione ed ozono. Sono disponibili in 4 famiglie di prodotto a seconda della potenza prodotta, dalla Z più piccola, la E piccola, la S standard, fino alla G di grande potenza. Il principio di funzionamento a 50 o 60 Hz lo rende adatto ad applicazioni dove la lunghezza dei cavi è superiore ai 2mt. Disponibile in numerose versioni di ingressi e uscite in combinazione con tensioni di ingresso ed uscita totalmente personalizzabili.

ELECTRONIC TRANSFORMERS

TRASFORMATORI ELETTRONICI

Series系列	Type型号	Vin电压	Iout 电流 cc mA	ED	Output 输出	Applications 适用范围			page页码
TRK ELECTRONIC TRANSFORMERS | 电子变压器 TRK 系列									
	TRK1-20CVD	220-240V	**20**	100%	Grounded center		●	●	14
	TRK1-20PCVD	220-240V	**20**	100%	Grounded pole	●		●	15
	TRK1-30CVD	220-240V	**30**	100%	Grounded center		●	●	14
	TRK1-30CHD	220-240V	**30**	100%	Grounded center		●	●	18
	TRK1-30PCVD	220-240V	**30**	100%	Grounded pole	●		●	15
	TRK2-35	220-240V	**35**	33% on 3'	Grounded center		●		14
	TRK2-30PVD	220-240V	**30**	33% on 3'	Grounded pole	●			15
	TRK2-30PFVD	220-240V	**30**	33% on 3'	Grounded pole	●			15
	TRK2-30PVDUS	220-240V	**30**	33% on 3'	Grounded pole	●			15
	TRK2-30PFVDUS	220-240V	**30**	33% on 3'	Grounded pole	●			15
	TRK2-30PHD	220-240V	**30**	33% on 3'	Grounded pole	●			18
	TRK2-40VD	220-240V	**40**	33% on 3'	Grounded center		●		14
	TRK2-40HD	220-240V	**40**	33% on 3'	Grounded center		●		18
	TRK2-40HK	220-240V	**40**	33% on 3'	Grounded center		●		16
	TRK2-40HKL	220-240V	**40**	33% on 3'	Grounded center		●		16
	TRK2-40PVD	220-240V	**40**	33% on 3'	Grounded pole	●			15
	TRK2-40PHK	220-240V	**40**	33% on 3'	Grounded pole	●			17
	TRK2-40PHKL	220-240V	**40**	33% on 3'	Grounded pole	●			17
	TRK2-40SHK	220-240V	**40**	33% on 3'	Insulated		●		16
	TRK2-40SVD	220-240V	**40**	33% on 3'	Insulated		●		14
	TRK2-40PHD	220-240V	**40**	33% on 3'	Grounded center		●		18
	TRK1-20CUVD	120V	**20**	100%	Grounded center		●		14
	TRK1-20PCUVD	120V	**20**	100%	Grounded pole	●			15
	TRK2-30PUVD	120V	**26**	33% on 3'	Grounded pole	●			15
	TRK2-30PUFVD	120V	**26**	33% on 3'	Grounded pole	●			15
	TRK2-30UVD	120V	**30**	33% on 3'	Grounded center		●		14
TRJ ELECTRONIC TRANSFRMER | 电子变压器 TRJ 系列									
	TRJ2-30VD	220-240V	**21**	33% su 3'	Grounded center		●		19
	TRJ2-30PVD	220-240V	**22**	33% su 3'	Grounded pole	●			19
	TRJ3-40CVD	220-240V	**30**	100%	Grounded center		●	●	20



Series系列	Type型号	Vin电压	Enery 输出能量 Iout cc 电流 [mA]	ED	Output 输出	Applications 适用范围			page页码
TRW CAPACITANCE DISCHARGE IGNITER | 电容充放电式点火器 TRW系列									
	TRW1P2	220-240V	**20 mJ**	100%	Grounded center	●			24
	TRW1P2R	220-240V	**20 mJ**	100%	Grounded center	●			24
	TRW1P4	220-240V	**20 mJ**	100%	Grounded center	●			24
	TRW1P4R	220-240V	**20 mJ**	100%	Grounded pole	●			24
	TRW1S2M	220-240V	**20 mJ**	100%	Insulated	●			24
	TRW1S4	220-240V	**20 mJ**	100%	Insulated	●			24
	TRW2P2	220-240V	**20 mJ**	100%	Grounded center	●			25
	TRW2P4	220-240V	**20 mJ**	100%	Grounded center	●			25
	TRW2P4R	220-240V	**20 mJ**	100%	Grounded pole	●			25
TRM ELECTRONIC TRANSFORMER | 电子式变压器 TRM系列									
	TRM24-20PC	24 Vdc	**14**	100%	Grounded pole	●	●	●	21
TRL POWER ELECTRONIC TRANSFORMERS | 电力电子变压器TRL系列									
	TRL12-30C	12 Vdc	**22**	100%	Grounded center		●	●	22
	TRL24-30C	24 Vdc	**22**	100%	Grounded center		●	●	22
	TRL12-30PC	12 Vdc	**22**	100%	Grounded pole	●		●	22
	TRL24-30PC	24 Vdc	**22**	100%	Grounded pole	●		●	22
TRH POWER ELECTRONIC TRANSFORMERS | 电力电子变压器TRH系列									
	TRH2-30CU	120V	**30**	100%	Grounded center		●	●	23
	TRH2-30C	230V	**30**	100%	Grounded center		●	●	23
	TRH2-30CQ	400V	**30**	100%	Grounded center		●	●	23
	TRH2-60	230V	**40**	33% on 3'	Grounded center		●		23
	TRH2-40U	120V	**50**	33% on 3'	Grounded center		●		23

INDUCTIVE TRANSFORMERS

TRASFORMATORI INDUTTIVI

Series系列	Type型号	Vin 电压	Vout 输出电压 [kV]	Iout 电流 cc [mA]	ED	Output 输出	Applications 适用范围				page页码
TRZ INDUCTIVE TRANSFORMER | 电感变压器 TRZ系列											
	TRZ410CL	230V	2x2	**10**	100%	Grounded center			●		32
	TRZ510C	230V	2x2,5	**10**	100%	Grounded center			●		32
	TRZ4.509PC	230V	1x4,5	**9**	100%	Grounded pole			●		32
TRE INDUCTIVE TRANSFORMER | 电感变压器TRE系列											
	TRE308C	230V	2x1,5	**8**	100%	Grounded center			●		26
	TRE510C	230V	2x2,5	**10**	100%	Grounded center			●		26
	TRE820	230V	2x4	**20**	19% on 3'	Grounded center	●	●			26
	TRE210PC	230V	1x2	**10**	100%	Grounded pole			●		25
	TRE410PC	230V	1x4	**10**	100%	Grounded pole	●				25
	TRE510PC	230V	1x5	**10**	100%	Grounded pole	●				25
	TRE820P	230V	1x8	**20**	19% on 3'	Grounded pole	●				25
	TRE820PISO	230V	1x8	**20**	19% on 3'	Insulated	●				25
TRG INDUCTIVE TRANSFORMER | 电感变压器 TRG系列											
	TRG1015C	230V	2x5	**15**	100%	Grounded center		●		●	30
	TRG1020C	230V	2x5	**20**	100%	Grounded center		●		●	30
	TRG1035	230V	2x5	**35**	25% on 4'	Grounded center		●		●	30
	TRG1035 US	120V	2x5	**35**	25% on 4'	Grounded center		●			30
	TRG1225	230V	2x6	**25**	25% on 4'	Grounded center		●			30
	TRG1230	230V	2x6	**30**	33% on 3'	Grounded center		●			30
	TRG1230	120V	2x6	**30**	25% on 4'	Grounded center		●			30
	TRG623PC US	120V	1x6	**23**	100%	Grounded pole	●				31
	TRG820PC	230V	1x8	**20**	100%	Grounded pole	●				31
	TRG835P	230V	1x8	**35**	25% on 4'	Grounded pole	●				31
	TRG1020PC	230V	1x10	**20**	100%	Grounded pole	●				31
	TRG1035P	230V	1x10	**35**	25% on 4'	Grounded pole	●				31



TRS INDUCTIVE TRANSFORMER | TRASFORMATORE INDUTTIVO TRS



Series系列	Type型号	Vin 电压	Vout 输出电压 [kV]	Iout 电流 cc [mA]	ED	Output 输出	Applications 适用范围				page页码
	TRS513C	230V	2x2,5	10	100%	Grounded center			●	●	28
	TRS812C	230V	2x4	12	100%	Grounded center		●		●	28
	TRS815C	230V	2x4	15	100%	Grounded center				●	28
	TRS818C	230V	2x4	18	100%	Grounded center		●		●	28
	TRS820	230V	2x4	20	25% on 4'	Grounded center		●			28
	TRS1020	230V	2x5	20	25% on 4'	Grounded center		●			28
	TRS1020	230V	2x5	20	33% on 3'	Grounded center		●		●	28
	TRS1030	230V	2x5	30	25% on 4'	Grounded center		●			28
	TRS1220	230V	2x6	20	25% on 4'	Grounded center		●			28
	TRS404PC	230V	1x4	4	100%	Grounded pole	●	●			29
	TRS505PC	230V	1x5	5	100%	Grounded pole	●	●			29
	TRS508PC	230V	1x5	8	100%	Grounded pole	●	●			29
	TRS510PC	230V	1x5	10	100%	Grounded pole	●	●			29
	TRS515PC	230V	1x5	15	100%	Grounded pole	●	●			29
	TRS6.508PC	230V	1x6,5	8	100%	Grounded pole	●	●			29
	TRS606PC	230V	1x6,5	6	100%	Grounded pole	●	●			29
	TRS610PC	230V	1x6,5	10	100%	Grounded pole	●	●			29
	TRS708PC	230V	1x7	8	100%	Grounded pole	●	●			29
	TRS818PC	230V	1x8	18	100%	Grounded pole	●	●			29
	TRS820P	230V	1x8	20	25% on 4'	Grounded pole	●	●			29
	TRS723P US	120V	1x8	23	25% on 4'	Grounded pole	●	●			29
	TRS820PISO	230V	1x8	20	33% on 3'	Insulated	●	●			29
	TRS830P	230V	1x8	30	25% on 4'	Grounded pole	●	●			29
	TRS1815C/IS	230V	1x2	15	100%	Insulated	●	●			29

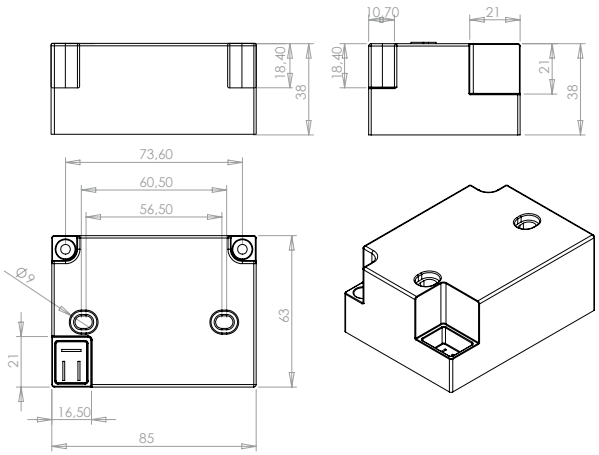
TRK VD

Vertical outlet | Plug D
垂直式输出| D插头



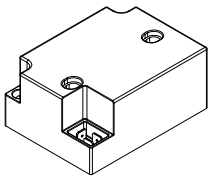
2 POLES | 2 极电压

Technical drawing | 工程图 [mm]



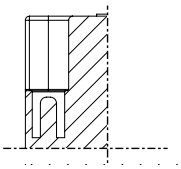
Inlet | 接入口

Plug D | D插头



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直式输出插头，0.4mm



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力）100%									
TRK1-20CVD	220-240V	30W	20 mA	12 mA	2x14 kV	100%	60°C	Grounded center	CE
TRK1-30CVD	230V	30W	30 mA	17 mA	2x12 kV	100%	60°C	Grounded center	CE
TRK1-20CUVD	120V	22W	20 mA	12 mA	2x14 kV	100%	60°C	Grounded center	cULus
INTERMITTENT | 间歇性（电力）									
TRK2-35	220-240V	65W	35 mA	20 mA	2x10 kV	33% on 3'	60°C	Grounded center	CE
TRK2-40VD	220-240V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	CE
TRK2-40SVD**	220-240V	65W	40 mA	24 mA	15 kV	33% on 3'	60°C	Insulated	
TRK2-30UVD	120V	60W	30 mA	20 mA	2x12 kV	33% on 3'	60°C	Grounded center	cULus

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.
**One pole shall be grounded. | Un polo deve essere messo a terra.

Applications | 适用范围



ZHONG LI WEI YE

Available certifcation | 证书

COFI ignitions

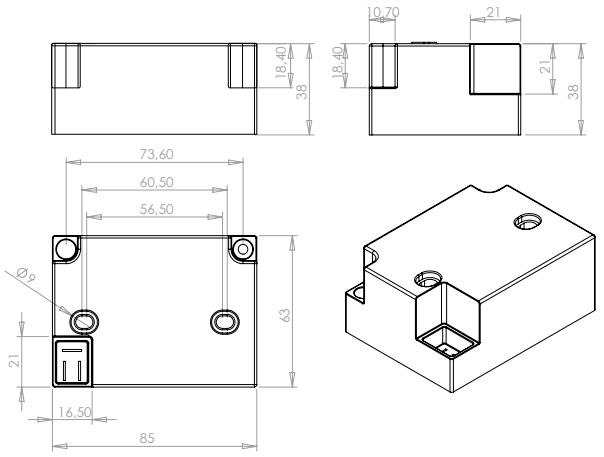
Transformers of widely used standards, produced in many different versions, with different powers and suitable for all applications on the market inputs and outputs configurations. Available in intermittent and continuous version for gas and oil applications, it is available filtered or unfiltered (F).

使用广泛的标准型变压器，型号多样，通过不同的功率设置，可满足市场对各种不同接入口和输出口设计的电子设备的需求。适用于间歇性或连续性电力要求的燃气和燃油设备。

STANDARD
标准型

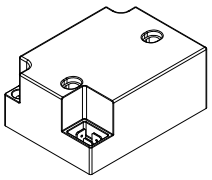
1 POLE | 1极电压

Technical drawing | 工程图 [mm]



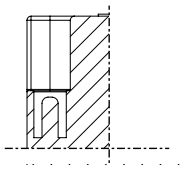
Inlet | 接入口

Plug D | D插头



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力）100%									
TRK1-20PCVD	220-240V	30W	20 mA	12 mA	1x15 kV	100%	60°C	Grounded pole	CE
TRK1-30PCVD	220-240V	30W	30 mA	17 mA	1x15 kV	100%	60°C	Grounded pole	CE
TRK1-20PCUVD	120V	30W	20 mA	12 mA	1x15 kV	100%	60°C	Grounded pole	CE
INTERMITTENT | 间歇性（电力）									
TRK2-30PVD	220-240V	63W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE
TRK2-30PFVD	220-240V	63W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE
TRK2-30PVDUS	230V	69W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE cULus
TRK2-30PFVDUS	230V	69W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE cULus
TRK2-40PVD	220-240V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE
TRK2-30PUVD	120V	60W	36 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	cULus
TRK2-30PUFVD	120V	60W	36 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	cULus

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围

Available certifcation | 证书

ZHONG LI WEI YE

COFI ignitions

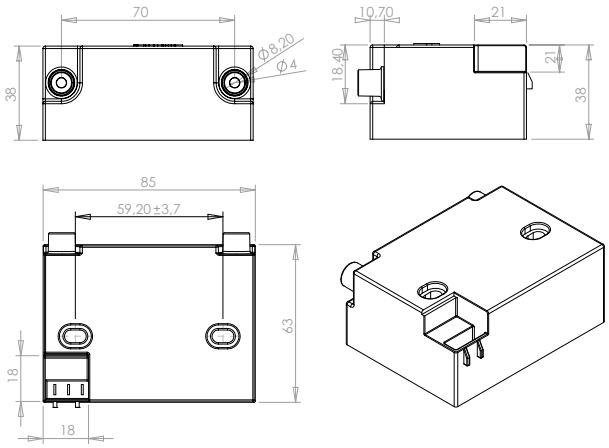
TRK HK

Horizontal outlet | Plug K
水平输出 | K插头



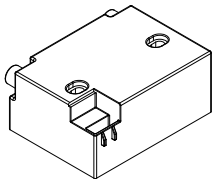
2 POLES | 2 极电压

Technical drawing | 工程图[mm]

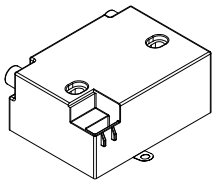


Inlet | 接入口

Plug K | K插头

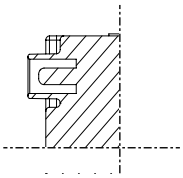


Plug K with grand plate L | 标准直埋电缆类插头K



Outlet | 输出口

H plug, horizontal output plug, Ø 4mm (13.5 mm deep)
| H插头，水平输出插头，0.4mm（埋入深度13.5mm）



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
INTERMITTENT | 间歇性（电力）									
TRK2-40HK	220-240V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	
TRK2-40HKL	220-240V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	
TRK2-40SHK**	220-240V	65W	40 mA	24 mA	15 kV	33% on 3'	60°C	Insulated	

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.
**One pole shall be grounded. | Un polo deve essere messo a terra.

Applications | 适用范围

Available certifcation | 证书

ZHONG LI WEI YE

COFI ignitions

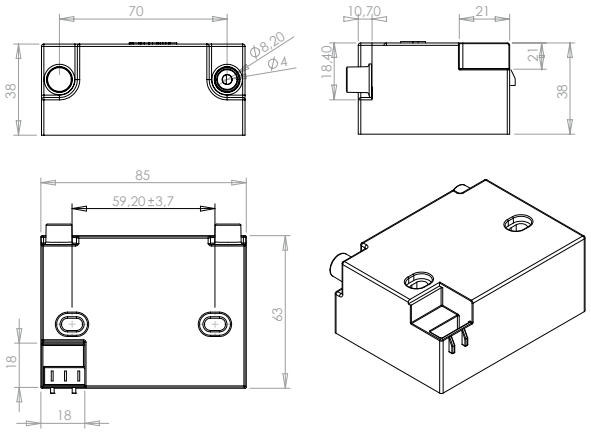
Transformers of widely used standards, produced in many different versions, with different powers and suitable for all applications on the market inputs and outputs configurations. Available in intermittent and continuous version for gas and oil applications.

广泛使用的标准型变压器，型号多样，通过不同型号的不同功率设置，能满足市场对各种不同接入口和输出口设计的电子设备的需求。可应用于间歇性或连续性电力要求的燃气和燃油设备。

STANDARD
标准型

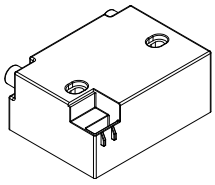
1 POLE | 1 极电压

Technical drawing | 工程图[mm]

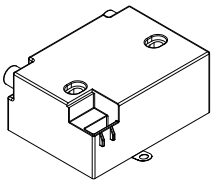


Inlet | 接入口

Plug K | K插头

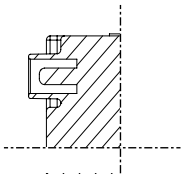


Plug K with grand plate L | 标准直埋电缆类插头K



Outlet | 输出口

H plug, horizontal output plug, Ø 4mm (13.5 mm deep)
| H插头，水平输出插头，0.4mm（埋入深度13.5mm）



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
INTERMITTENT | 间歇性（电力）									
TRK2-40PHK	220-240V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	
TRK2-40PHKL	220-240V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围

Available certifcation | 证书

ZHONG LI WEI YE

COFI ignitions

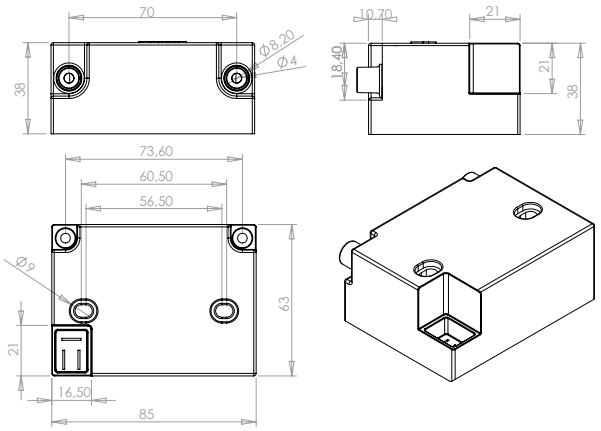
TRK HD

Horizontal outlet | Plug D
水平输出 | D插头



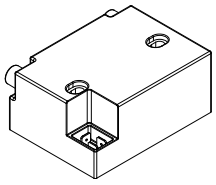
2 POLES | 2 极电压

Technical drawing | 工程图[mm]



Inlet | 接入口

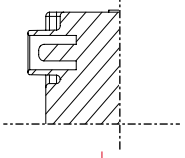
Plug D | D插头



STANDARD 标准型

Outlet | 输出口

H plug, horizontal output plug, Ø 4mm (13.5 mm deep)
| H插头，水平输出插头，0.4mm（埋入深度13.5mm)

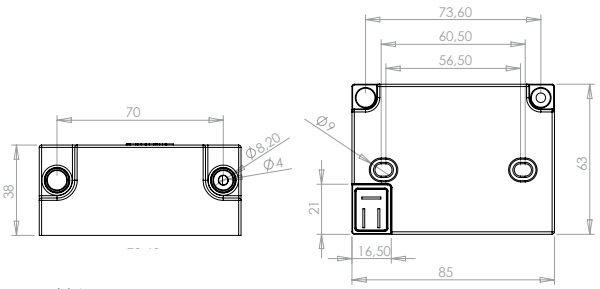


Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力）100%									
TRK1-30CHD	220-240V	30W	30 mA	17 mA	2x12 kV	100%	60°C	Grounded center	
INTERMITTENT | 间歇性（电力）									
TRK2-40HD	220-240V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

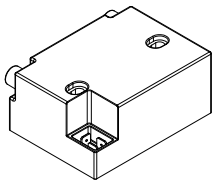
1 POLE | 1 极电压

Technical drawing | 工程图 [mm]



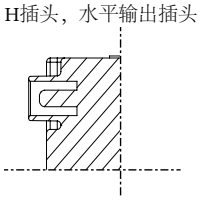
Inlet | 接入口

Plug D | D插头



Outlet | 输出口

H plug, horizontal output plug, Ø 4mm (13.5 mm deep) |
H插头，水平输出插头，0.44mm(13.5mm)



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
INTERMITTENT | 间歇性（电力）									
TRK2-30PHD	220-240V	63W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE
TRK2-40PHD	220-240V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围



ZHONG LI WEI YE

Available certification | 证书

COFI ignitions

TRJ

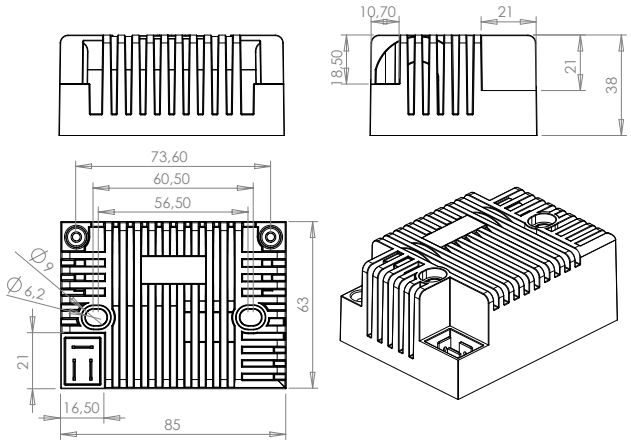
Transformer 4th generation and new concept, which incorporates all the experience and knowledge, accumulated in over 20 years of electronic design and production, is able to combine excellent power performance at a very affordable price.

汲取总结过去20年的电子设计经验和生产技术，第4代新概念变压器具有出色的工作性能，但价格非常优惠。



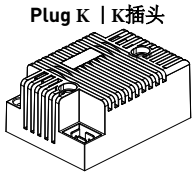
2 POLES | 2 极电压

Technical drawing | 工程图[mm]



Inlet | 接入口

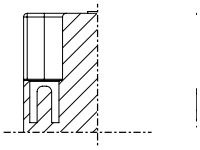
Plug K | K插头



BEST PRICE
最优惠

Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm

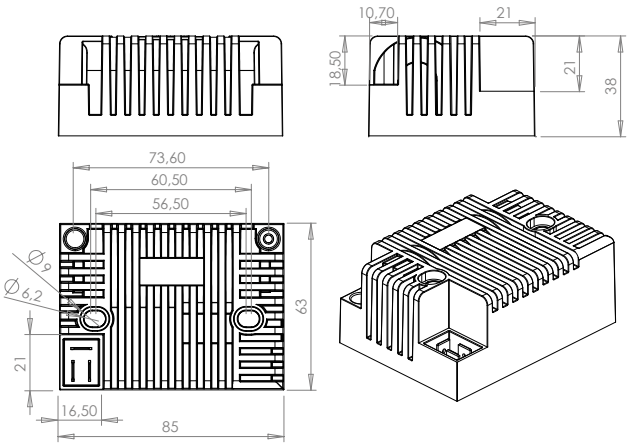


Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
INTERMITTENT | 间歇性（电力）									
TRJ2-30VD	220-240V	65W	35 mA	21 mA	2x10 kV	33% su 3'	60°C	Grounded center	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

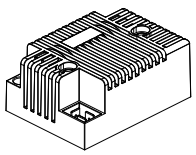
1 POLE | 1 极电压

Technical drawing | 工程图 [mm]



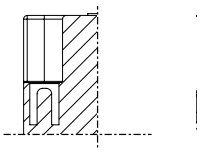
Inlet |接入口

Plug K | K插头



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



Type型号	Vin电压	Pin功率	cc电流	Iout burn*	输出电压	ED	Ta 温度	Output 输出	Note 备注
INTERMITTENT | 间歇性（电力）									
TRJ2-30PVD	220-240V	63W	30 mA	22 mA	1x15 kV	33% su 3'	60°C	Grounded pole	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications |适用范围



Available certification | 证书

CE

ZHONG LI WEI YE

COFI ignitions

TRJ3

Vertical outlet | Plug D
垂直式输出 | D插头

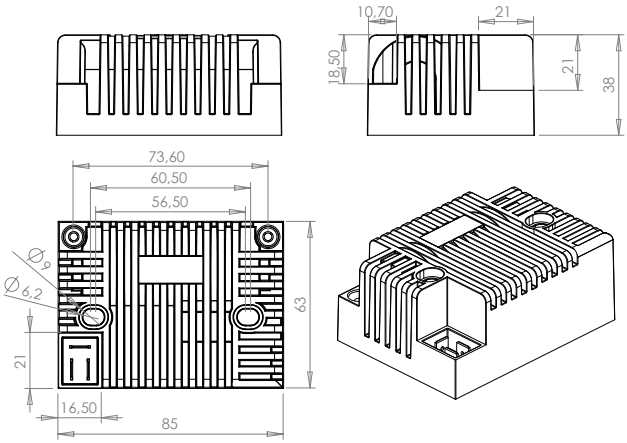


The power of an intermittent transformer that adapt it self at an eventual continuous duty.

间隙性电力变压器可通过调整自身的功能已达到连续工作的需求。

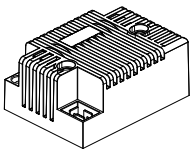
2 POLES | 2极电压

Technical drawing | 工程图 [mm]



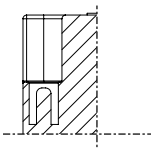
Inlet | 接入口

Plug D | D插头



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



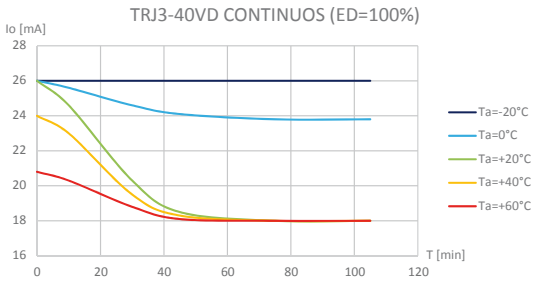
SMART IGNITION
智能型点火器

Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 连续性（电力） 100%									
TRJ3-40CVD	220-240V	65W	30 mA	26-18 mA	2x14 kV	100%	60°C	Grounded center	CE

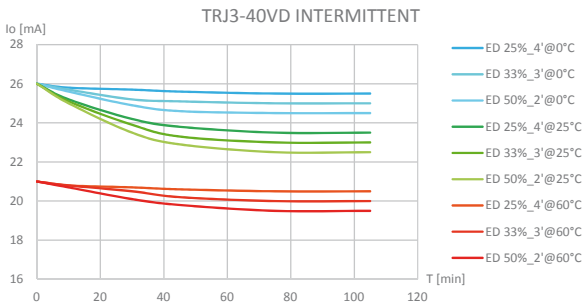
*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Transformer with a sophisticated temperature control able to take advantage of the environmental conditions to maximize the benefits provided, as long as the temperatures or duty cycles do not exceed certain conditions, the transformer provides the maximum current of 26mA, for example in the event of ignition in cold climates or after long periods of inactivity. In any case guarantees a service to 100% continuous with actual 18mA up to 60 ° C ambient temperature. It can be applied in any application that has very tight insertion cycles of always providing the maximum power available and self-limiting only in extreme environmental conditions.

变压器具有强大的控温能力，能够利用环境条件实现工作效益最优化。在特定的温度和工作时间范围内，如寒冷的天气或长时间不运行的情况下，它可产生最大达26mA电流。并且在任何情况下，均能保证达到绝对连续且稳定18mA电流和实60 C 的实际温度。应用于任何具有非常紧凑的循环周期的电子设备，并且通过其紧凑的循环周期提供最大的工作动力以及在极端环境下的自行设限。



Secondary RMS spark current at ED=100%
Corrente efficace secondaria in scarica a servizio continuo



Intermittent duty secondary RMS spark current
Corrente efficace secondaria in scarica a servizio intermittente

Applications |适用范围



ZHONG LI WEI YE

Available certification | 证书

CE

COFI ignitions

24 Vdc igniter of compact size with 1 pole, designed for gas applications which do not require high power levels and still fed in systems with portable generators where there is no power line.

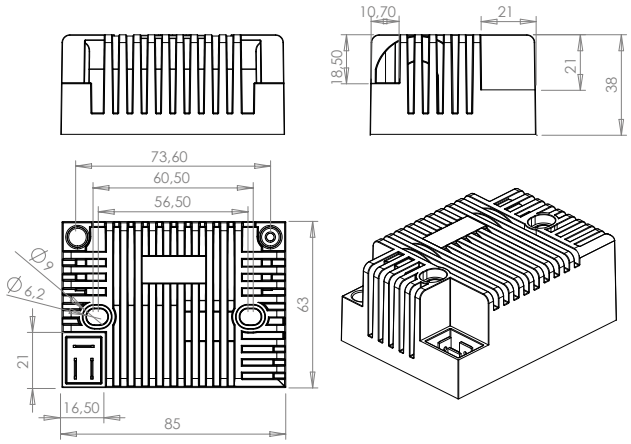
24Vdc点火器为单机小体型变压器，适用于各种不要求大功率的燃气设备，并且适用于不带电源线的便捷式发电机系统中。



TRM

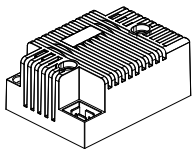
1 POLE | 1极电压

Technical drawing | 工程图 [mm]



Inlet | 接入口

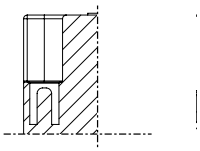
Plug K | K插头



24Vdc MIDDLE POWER 中功率

Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力）100%									
TRM24-20PCVD	24Vdc	40W	20 mA	14 mA	1x15 kV	100%	60°C	Grounded pole	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围

Available certification | 证书

CE

ZHONG LI WEI YE

COFI ignitions

TRL

Vertical outlet | Plug D
垂直输出 | D插头



High power transformers and sophisticated technology capable of meeting the most stringent requirements demanding high power and extension of the limits of use in extreme temperatures, in off shore and portable systems with supply voltage 12 and 24 Vdc, continuous duty for oil and gas applications .

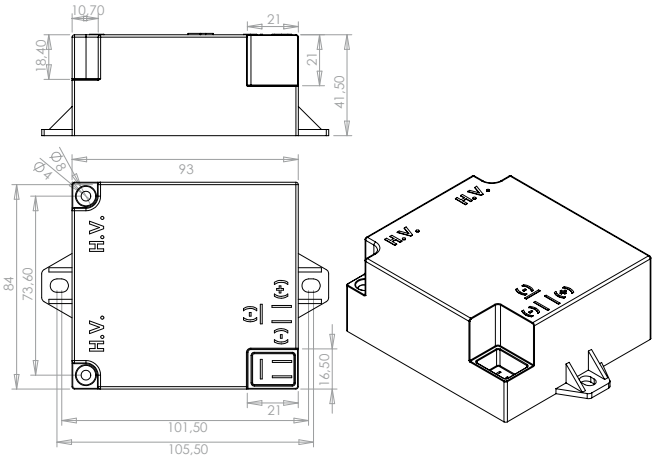
具有先进技术的大功率变压器能够满足在极端高温温度情况下使用时具有出色的工作和扩展性能。适用于12伏电压和24伏电压的可持续工作离线便携式燃油和燃气设备。

12 Vdc
24Vdc

HIGH POWER
高功率

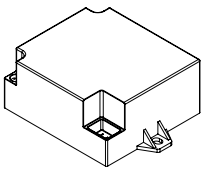
2 POLES | 2极电压

Technical drawing | 工程图 [mm]



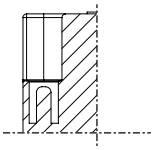
Inlet | 接入口

Plug D | D插头



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直式输出插头，0.4mm

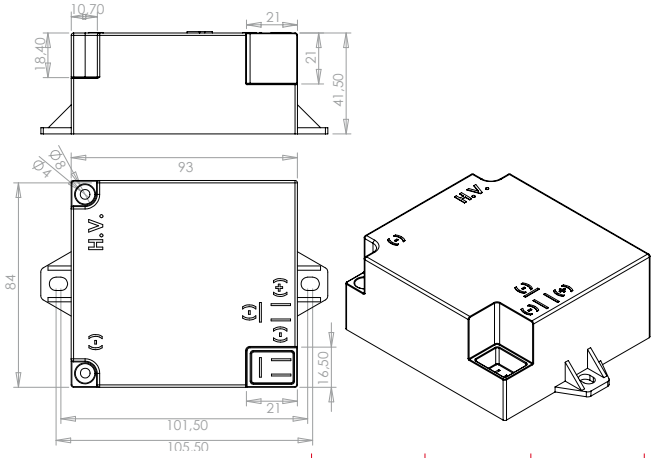


Type 型号	Vin 电压	Pin 功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
TRL12-30C	12Vdc	80W	30 mA	22 mA	2x12kV	100%	60°C	Grounded center	CE
TRL24-30C	24Vdc	80W	30 mA	22 mA	2x12kV	100%	60°C	Grounded center	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

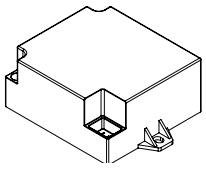
1 POLE | 1 极电压

Technical drawing | 工程图 [mm]



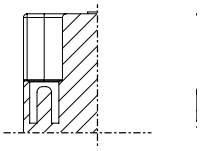
Inlet | 接入口

Plug **D** | **D插头**



Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



Type型号	Vin电压	Pin功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
TRL12-30PC	12Vdc	80W	30 mA	22 mA	1x15kV	100%	60°C	Grounded pole	CE
TRL24-30PC	24Vdc	80W	30 mA	22 mA	1x15kV	100%	60°C	Grounded pole	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围



Available certification | 证书

CE

ZHONG LI WEI YE

COFI ignitions

High power transformers and sophisticated technology able to meet the most stringent requirements that ask great power and extension of the limits of use at extreme temperatures. The transformers of this series are available in both continuous and intermittent service and supply voltages for all world markets from 120 to 400V.

具备先进技术的大功率变压器，能够在极端高温温度情况下使用时具有出色的工作和扩展性能。该系列的变压器可应用于连续性或间隙性电力的电子设备，并且满足120V--140V的全球各种电压需求。

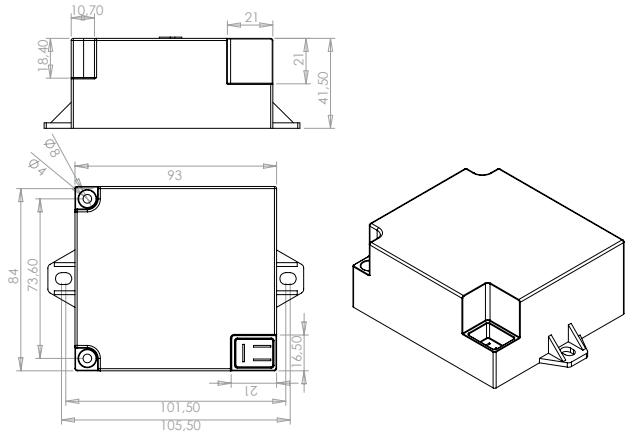


TRH

Vertical outlet | Plug D
Uscite Verticali | Spina D

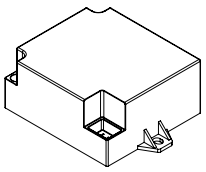
2 POLES | 2 极电压

Technical drawing | 工程图 [mm]



Inlet | 接入口

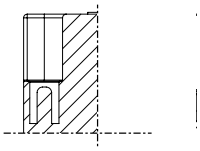
Plug D | D插头



HIGH POWER
高功率

Outlet | 输出口

V plug, vertical output plug, Ø 4mm | V插头，垂直输出插头，0.4mm



Type 型号	Vin 电压	Pin 功率	Iout cc cc电流	Iout burn*	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力） 100%									
TRH2-30CU	120V	70W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	CE c UL us
TRH2-30C	230V	60W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	CE
TRH2-30CQ	400V	60W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	CE
INTERMITTENT | 间歇性（电力）									
TRH2-60	230V	100W	50 mA	30 mA	2x12 kV	33% on 3'	60°C	Grounded center	CE
TRH2-40U	120V	90W	40 mA	30 mA	2x12 kV	33% on 3'	60°C	Grounded center	CE c UL us

Applications | 适用范围

Available certification | 证书

ZHONG LI WEI YE

COFI ignitions

TRW 1

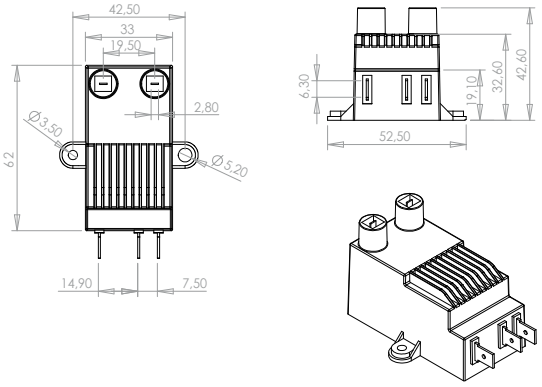


Ignition transformer with capacitive discharge technology for applications in condensing boilers and atmospheric gas burners. Developed to produce more power to the classics on board lighters, filtered against electromagnetic interference and available with output for mono-electrode flame detection.

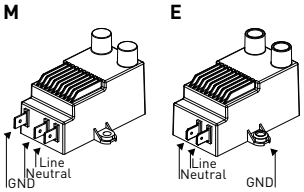
2 POLES | 2 极电压

One pole shall be grounded. | 单极电压接地.

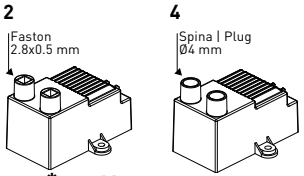
Technical drawing | 工程图 [mm]



Inlet | 接入口



Outlet | 输出口



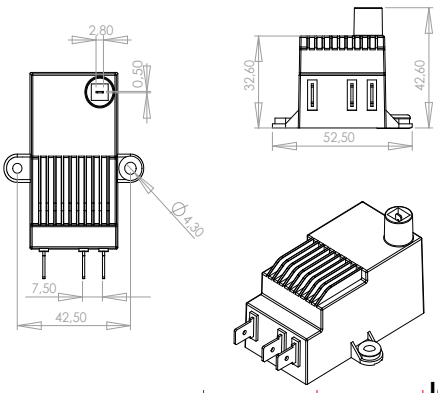
CONDENSING BOILERS 冷凝式锅炉

Type 型号	Vin 电压	Pin 功率	Iout pick 预选电流	Energy* 能量值	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
TRW1S2E	220-240V	5W	800mA	20 mJ	15 kV	100%	60°C	Insulated	CE
TRW1S2M	220-240V	5W	800mA	20 mJ	15 kV	100%	60°C	Insulated	CE
TRW1S4E	220-240V	5W	800mA	20 mJ	15 kV	100%	60°C	Insulated	CE

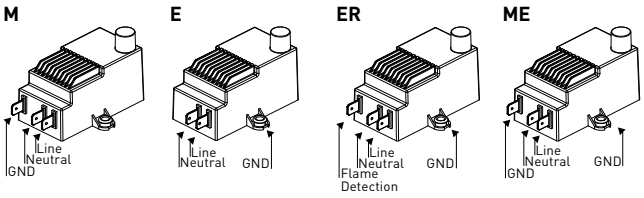
*Mesured on 2k ohm resistor. | Misure effettuate su resistenze da 2k ohm.

1 POLE | 1 极电压

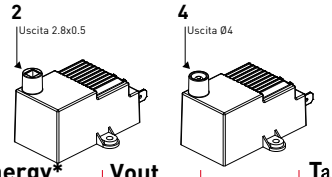
Technical drawing | 工程图[mm]



Inlet | 接入口



Outlet | 输出口



Type型号	Vin电压	Pin功率	Iout pick 预选电流	Energy* 输出能量	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
TRW1P2M	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P2E	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P2ER	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P2ME	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P4M	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P4E	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P4ER	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW1P4ME	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE

*Current measured on the burner with 5mm spark gap, blowing air and suppressed cables | Condizioni di lavoro su bruciatore con puntine a 6mm in aria soffiata con cavi resistivi.

Applications | 适用范围

Available certification | 证书

ZHONG LI WEI YE

COFI ignitions

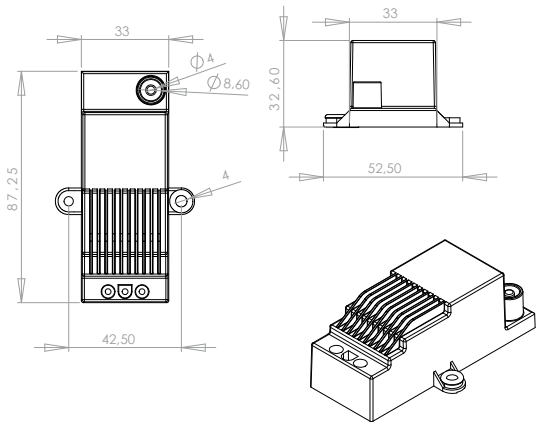
电容放电式点火变压器应用于冷凝式锅炉和气压点火燃烧器。相对传统变压器，电容放电式点火变压器能产出更大的火力，并具有抗电磁干扰和单机火焰检测输出功能。

TRW 2



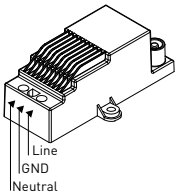
1 POLE | 1极电压

Technical drawing | 工程图[mm]



Inlet | 接入口

M



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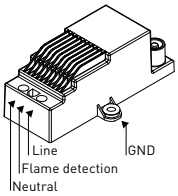
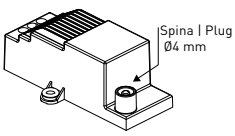


CONDENSING BOILERS
冷凝式锅炉

Outlet | 输出口

4



Type型号	Vin电压	Pin功率	Iout pick 预选电流	Energy* 输出能量	Vout 输出电压	ED	Ta 温度	Output 输出	Note 备注
TRW2P4M	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE
TRW2P4RE	220-240V	5W	800mA	20 mJ	1x15 kV	100%	60°C	Grounded pole	CE

*Mesured on 2k ohm resistor. | 测量基于2千欧姆电阻力下.

Applications 适用范围

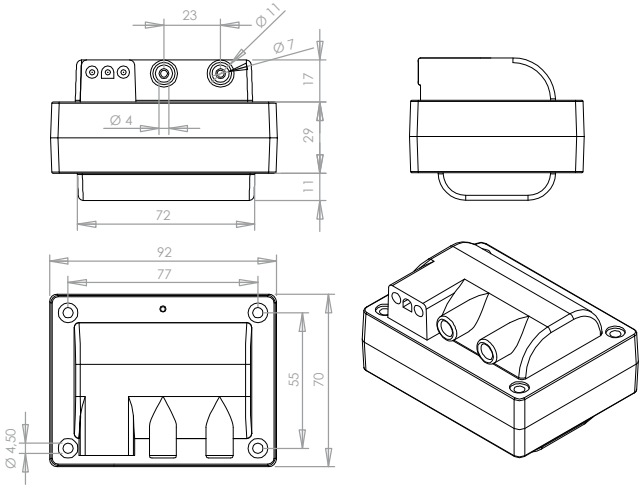
Available certification | 证书

TRE



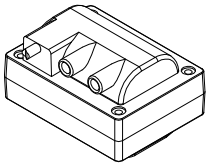
2 POLES | 2 极电压

Technical drawing | 工程图 [mm]

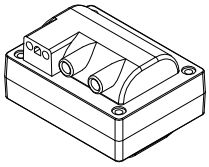


Inlet | 接入口

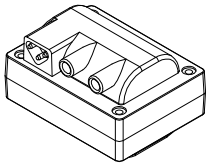
Standard buried cable L=380mm 标准直埋电缆=380mm



COFI plug Cofi插头

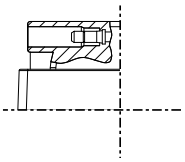


Triangle plug 三角插头

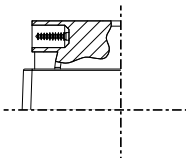


Outlet | 输出口

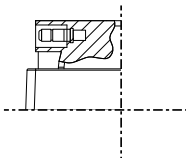
Cod: SPRO



Cod: VIRAS



Cod: SPRAS



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力） 100%							
TRE308C	230V	50Hz	2x1,5 kV	8 mA	100%	Grounded center	CE
TRE510C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	CE
INTERMITTENT | 间歇性（电力）							
TRE820	230V	50Hz	2x4 kV	20 mA	19% on 3'	Grounded center	VDE S

Applications |适用范围



ZHONG LI WEI YE

Available certification | 证书

VDE S CE

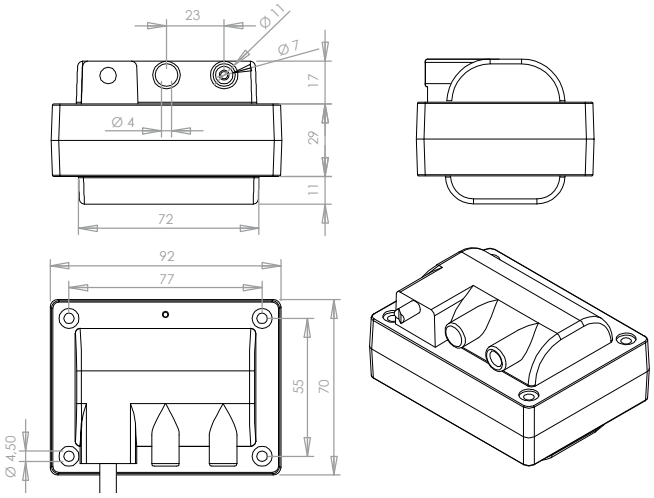
COFI ignitions

Small dimension transformer, it achieves the same performances of medium size transformers with lower costs, largely used for oil and gas burners, available with the secondary insulated for flame detection by ionization of the flame. It can also be applied to anti-mosquito equipment or ozone generators.

小型点火变压器，与中型变压器一样功能出色，但成本更低。可大量应用在燃油和燃气燃烧机，可通过电离火焰的二级绝缘探测器探测火焰。此变压器可用于驱蚊设备和臭氧发生器。

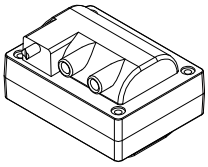
1 POLE | 1 极电压

Technical drawing | 工程图 [mm]

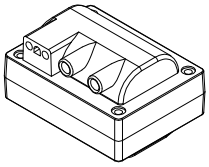


Inlet | 接入口

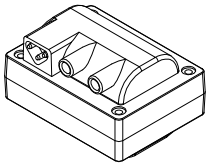
Standard buried cable L=380mm 标准直埋电缆=380mm



COFI plug Cofi插头

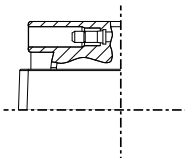


Triangle plug 三角插头

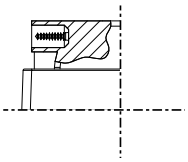


Outlet | 输出口

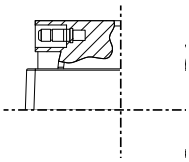
Cod: SPRO



Cod: VIRAS



Cod: SPRAS



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | 持续性（电力） 100%							
TRE210PC	230V	50Hz	1x2 kV	10 mA	100%	Grounded pole	CE
TRE410PC	230V	50Hz	1x4 kV	10 mA	100%	Grounded pole	CE
TRE510PC	230V	50Hz	1x5 kV	10 mA	100%	Grounded pole	CE
TRE610PC	230V	50Hz	1x6 kV	10 mA	100%	Grounded pole	CE
INTERMITTENT | 间歇性（电力）							
TRE820P	230V	50Hz	1x8 kV	20 mA	19% on 3'	Grounded pole	DVE S CE
INSULATED | 绝缘*							
TRE510PCISO	230V	50Hz	1x5 kV	10 mA	100%	Insulated	CE
TRE515PISO	230V	50Hz	1x5 kV	15 mA	100%	Insulated	CE
TRE820PISO	230V	50Hz	1x8 kV	20 mA	19% on 3'	Insulated	CE

*Transformers used with control box designed for igniting and flame detecting. | Trasformatori adatti all'uso con apparecchiature progettate per l'accensione e la rilevazione monoelettrodo.

Applications | 适用范围



Available certification | 证书

DVE S CE

ZHONG LI WEI YE

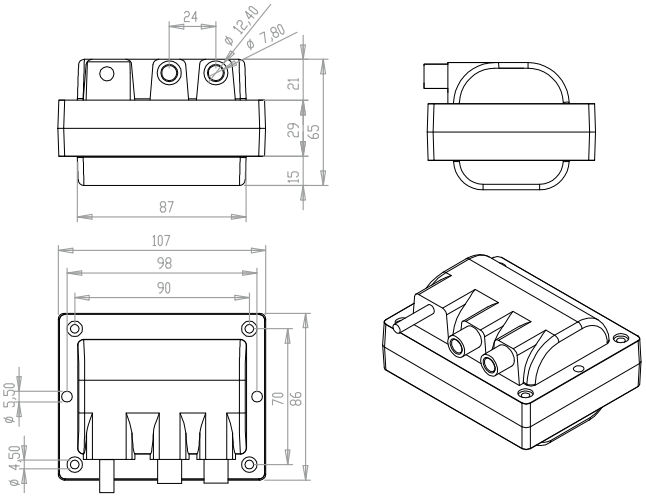
COFI ignitions

TRS



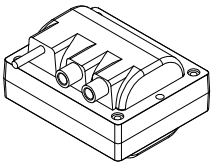
2 POLES | 2 极电压

Technical drawing | 工程图[mm]

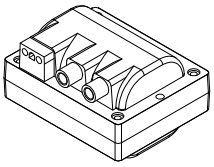


Inlet | 接入口

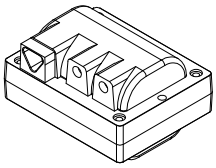
Standard buried cable
标准直埋电缆



COFI plug
Cofi 插头

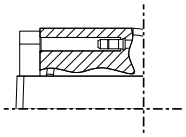


Triangle plug
三角插头

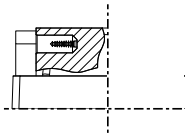


Outlet | 输出口

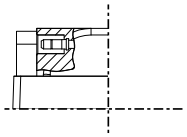
Cod: SPRO



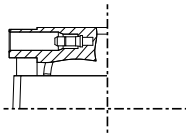
Cod: VIRAS



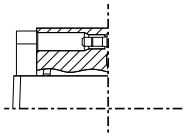
Cod: SPRAS



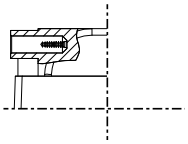
Cod: SPMAN



Cod: SP



Cod: VIMAN



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | 连续性（电力） 100%							
TRS513C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	CE
TRS810C	230V	50Hz	2x4 kV	10 mA	100%	Grounded center	VDE CE
TRS812C	230V	50Hz	2x4 kV	12 mA	100%	Grounded center	VDE CE
TRS815C	230V	50Hz	2x4 kV	15 mA	100%	Grounded center	CE
TRS818C	230V	50Hz	2x4 kV	18 mA	100%	Grounded center	S CE
INTERMITTENT | 间歇性（电力）							
TRS820	230V	50Hz	2x4 kV	20 mA	25% on 4'	Grounded center	VDE S CE
TRS1020	230V	50Hz	2x5 kV	20 mA	25% on 4'	Grounded center	VDE S CE
TRS1020	230V	50Hz	2x5 kV	20 mA	33% on 3'	Grounded center	VDE S CE
TRS1030	230V	50Hz	2x5 kV	30 mA	25% on 4'	Grounded center	CE
TRS1220	230V	50Hz	2x6 kV	20 mA	25% on 4'	Grounded center	CE

Applications | 适用范围



ZHONG LI WEI YE

Available certification | 证书

VDE S CE

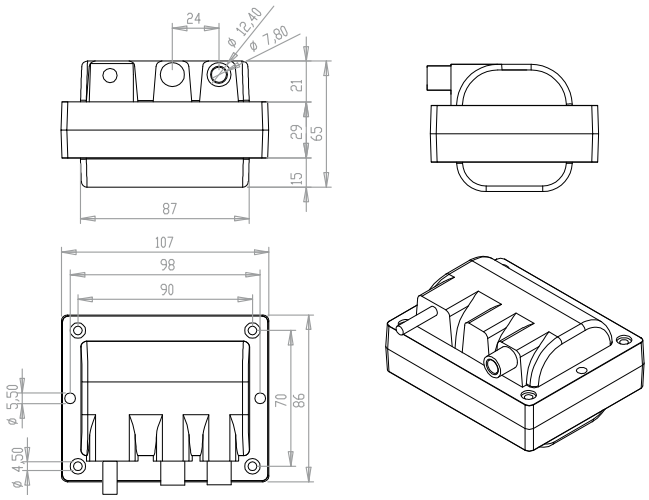
COFI ignitions

Medium-size inductive transformer, suitable for all kinds of gas and oil burners, where continuous or intermittent power and achievement of higher voltages and currents are required. This serie is available in a great number of variations. It suits very different uses such as burners, high-pressure cleaners, anti-mosquito electric equipment and ionizers.

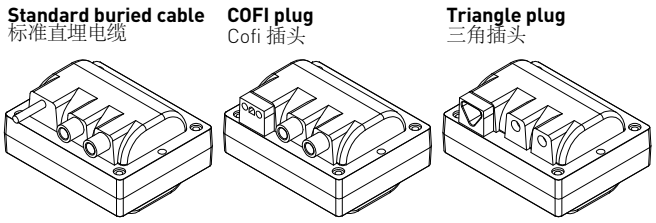
中型常规变压器，适用于各种连续性或间歇性电力和更高的电流电压要求的燃气和燃油燃烧机。型号多样，满足不同应需求，如燃烧机、高压清洁设备、驱蚊电气设备及离子发生器。

1 POLE | 1 极电压

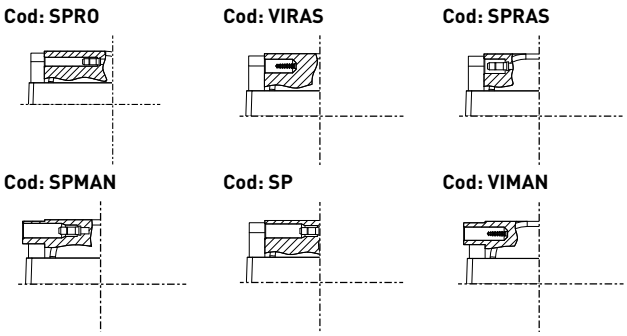
Technical drawing | 工程图[mm]



Inlet | 接入口



Outlet | 输出口



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | 连续性（电力） 100%							
TRS404PC	230V	50Hz	1x4 kV	4 mA	100%	Grounded pole	CE
TRS505PC	230V	50Hz	1x5 kV	5 mA	100%	Grounded pole	CE
TRS508PC	230V	50Hz	1x5 kV	8 mA	100%	Grounded pole	CE
TRS510PC	230V	50Hz	1x5 kV	10 mA	100%	Grounded pole	CE
TRS515PC	230V	50Hz	1x5 kV	15 mA	100%	Grounded pole	CE
TRS6.508PC	230V	50Hz	1x6,5 kV	8 mA	100%	Grounded pole	CE
TRS606PC	230V	50Hz	1x6,5 kV	6 mA	100%	Grounded pole	CE
TRS610PC	230V	50Hz	1x6,5 kV	10 mA	100%	Grounded pole	CE
TRS708PC	230V	50Hz	1x7 kV	8 mA	100%	Grounded pole	CE
TRS818PC	230V	50Hz	1x8 kV	18 mA	100%	Grounded pole	CE
TRS1815C/IS	230V	50Hz	1x2 kV	15 mA	100%	Grounded pole	CE
INTERMITTENT | 间歇性（电力）							
TRS820P	230V	50Hz	1x8 kV	20 mA	25% on 4'	Grounded pole	VDE CSA
TRS723P US	120V	60Hz	1x8 kV	23 mA	25% on 4'	Grounded pole	c UL us
TRS830P	230V	50Hz	1x8 kV	30 mA	25% on 4'	Grounded pole	CE
TRS820PISO*	230V	50Hz	1x8 kV	20 mA	33% on 3'	Insulated	CE

*Transformers used with control box designed for igniting and flame detecting. | Trasformatori adatti all'uso con apparecchiature progettate per l'accensione e la rilevazione monoelettrodo.

Applications | 应用范围



ZHONG LI WEI YE

Available certifcation | 证书

VDE CSA c UL us

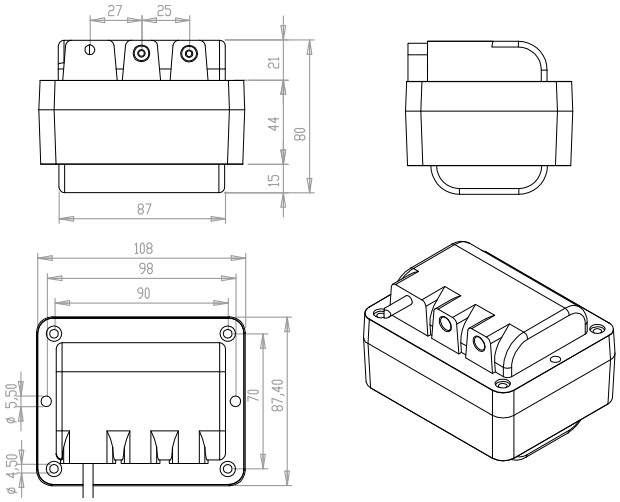
COFI ignitions

TRG



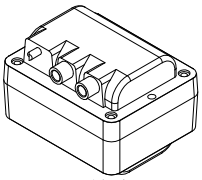
2 POLES | 2 极电压

Technical drawing | 工程图[mm]

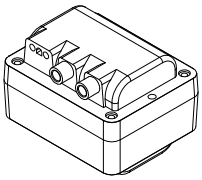


Inlet | 接入口

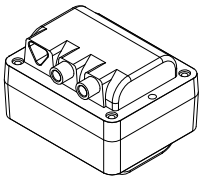
Standard buried cable
标准直埋电缆



COFI plug
Cofi 插头

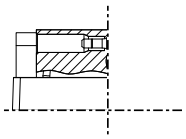


Triangle plug
三角插头

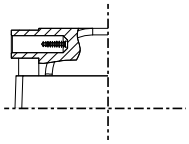


Outlet | 输出口

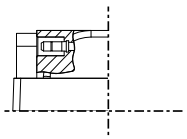
Cod: SP



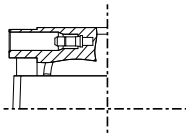
Cod: VIMAN



Cod: SPRAS



Cod: SPMAN



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | 连续性（电力） 100%							
TRG1015C	230V	50Hz	2x5 kV	15 mA	100%	Grounded center	
TRG1020C	230V	50Hz	2x5 kV	20 mA	100%	Grounded center	
INTERMITTENT | 间歇性（电力）							
TRG1035	230V	50Hz	2x5 kV	35 mA	25% on 4'	Grounded center	
TRG1035 US	120V	60Hz	2x5 kV	35 mA	25% on 4'	Grounded center	
TRG1225	230V	50Hz	2x6 kV	25 mA	25% on 4'	Grounded center	
TRG1230	230V	50Hz	2x6 kV	30 mA	33% on 3'	Grounded center	
TRG1230	120V	60Hz	2x6 kV	30 mA	25% on 4'	Grounded center	

Applications | 适用范围



ZHONG LI WEI YE

Available certification | 证书

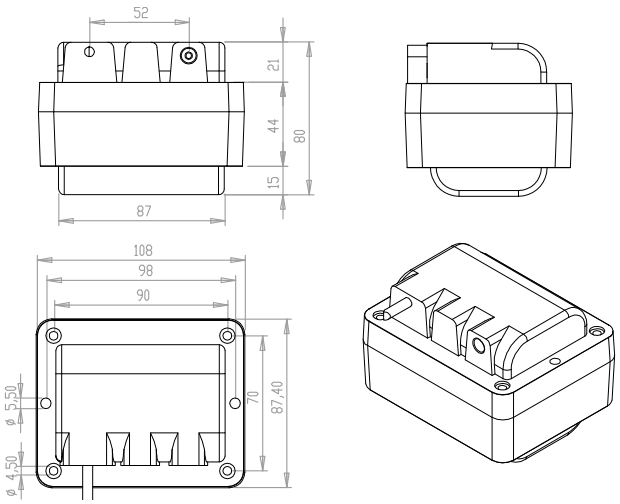
COFI ignitions

Large-size inductive transformer, suitable for large-flow and heavy fuel burners, where continuous power and higher voltages or currents are required. The versions of this range are suitable for use in large-size transformers and industrial high-pressure cleaners.

大型点火变压器，适用于各种连续性电力和更高的电流电压要求的大流量重油燃烧器，如大型变压器，工业高压清洁器。

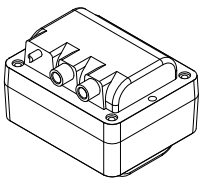
1 POLE | 1 极电压

Technical drawing | 工程图 [mm]

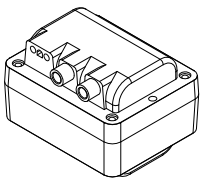


Inlet | 接入口

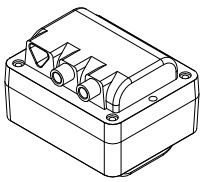
Standard buried cable
标准直埋电缆



Cofi 插头

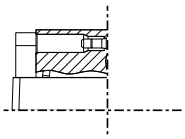


三角插头

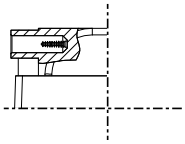


Outlet | 输出口

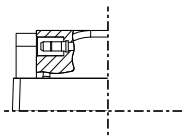
Cod: SP



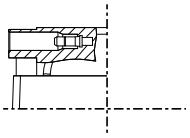
Cod: VIMAN



Cod: SPRAS



Cod: SPMAN



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
CONTINUOUS 100% | | 连续性（电力）100%							
TRG623PC US	120V	60Hz	1x6 kV	23 mA	100%	Grounded pole	c UL us
TRG820PC	230V	50Hz	1x8 kV	20 mA	100%	Grounded pole	CE
TRG1020PC	230V	50Hz	1x10 kV	20 mA	100%	Grounded pole	CE
INTERMITTENT | 间歇性（电力）							
TRG835P	230V	50Hz	1x8 kV	35 mA	25% on 4'	Grounded pole	CE
TRG1035P	230V	50Hz	1x10 kV	35 mA	25% on 4'	Grounded pole	CE

Applications | 适用范围



ZHONG LI WEI YE

Available certification | 证书

CE c UL us

COFI ignitions

TRZ

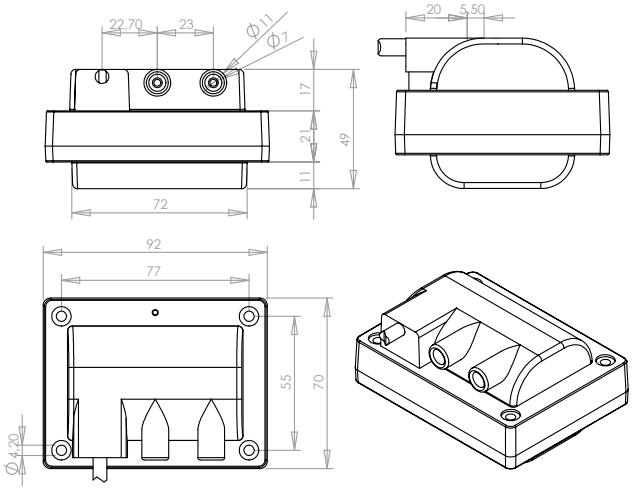


The smallest conventional transformer of the range, especially developed for the anti-mosquito equipments.

作为本系列中最小的传统变压器，此款是特别为驱蚊设备所造的。

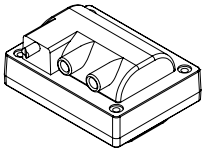
2 POLES | 2 极电压

Technical drawing | 工程图 [mm]



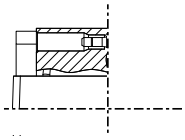
Inlet | 接入口

Standard buried cable
标准直埋电缆



Outlet | 输出口

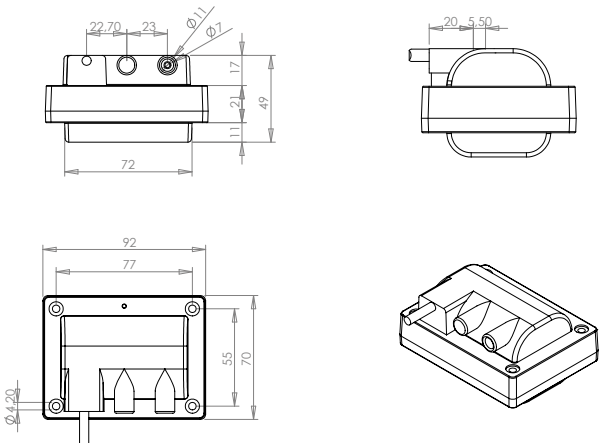
Cod: SP



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
TRZ410C	230V	50Hz	2x2 kV	10 mA	100%	Grounded center	CE
TRZ510C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	CE

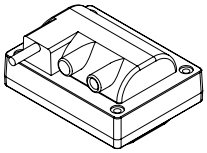
1 POLE | 1 POLO

Technical drawing | 工程图[mm]



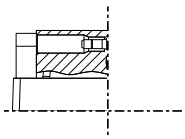
Inlet | 接入口

Plug K | K插头



Outlet | 输出口

Cod: SP



Type型号	Vin电压	Freq频率	Vout 输出电压	Iout电流	ED	Output 输出	Note 备注
TRZ4.509PC	230V	50Hz	1x4,5 kV	9 mA	100%	Grounded pole	CE

Applications | 适用范围



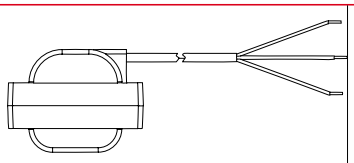
Available certification | 证书

CE

ZHONG LI WEI YE

COFI ignitions

PRIMARY CONNECTIONS | 主连接插头



Standard buried Cable 标准直埋电缆



Plug A A插头



Plug B B插头



Plug C C插头



Plug D D插头



Plug T T插头



Plug K K插头

FILTERS | 过滤器



Inductive transformers EMI disturbance suppression filter 点火变压器防干扰过滤器

Code: **06CE061517**

MOUNTING BRACKETS | 固定架



40X40 mm galvanized bracket

Bracket for horizontal mounting of transformer on any surface.

Code: **15MI152457**

Kit with screws and nuts available

Code: **Staffa 1**

尺寸： 40X40 mm

平放支架

代码：15MI152457

全套螺丝和螺母



102X26 mm galvanized bracket

Bracket for vertical mounting of transformer on any surface.

Code: **15MI152452**

Kit with screws and nuts available

Code: **Staffa 2**

尺寸：102X26 mm

垂直安装型固定架

全套螺丝和螺母
代码：Staffa 2



ACCESSORIES

ACCESSORI

CONNECTIONS AND PROTECTIONS | CONNESSIONI E PROTEZIONI



Connector for faston 2,8x0,8mm for cable Ø5,2mm.

Code: **11PC112031**

Connettore per Faston 2,8x0,8mm per cavo Ø 5,2mm.



Bronze phosphor connector Ø 4mm for cable Ø 5,2mm

Code: **11PC112004**

Connettore in bronzo fosforoso Ø 4 per cavi Ø 5,2mm



Bronze phosphor connector Ø 4mm for cable Ø 7mm

Code: **11PC112010**

Connettore in bronzo fosforoso Ø 4 per cavi Ø 7mm



Bronze phosphor connector Ø 6,3 mm for cable Ø 5,2 / 7mm straight without spring

Code: **11PC112013**

Connettore in bronzo fosforoso Ø 6,3 per cavi Ø 5,2 / 7mm dritto senza molla



Bronze phosphor connector Ø 6,3 mm for cable Ø 5,2 / 7mm straight with spring

Code: **11PC112011**

Connettore in bronzo fosforoso Ø 6,3 mm dritto con molla per cavi Ø 5,2 / 7mm



Bronze phosphor connector Ø 6,3 mm for cable Ø 5,2 / 7mm 90° with spring

Code: **11PC112018**

Connettore in bronzo fosforoso Ø 6,3mm a 90°con molla per cavi Ø 5,2 / 7mm



PVC overmolded protection for Ø 4mm plug for cable Ø5,2 / 7mm

Code: **17GO170000**

Protezione sovrastampata in PVC per spine Ø 4mm per cavi Ø 5,2 / 7mm



PVC overmolded protection for Ø 4mm 90° plug for cable Ø 5,2 / 7mm

Code: **17GOST000K**

Protezione sovrastampata in PVC per spine Ø 4mm a 90° per cavi Ø 5,2 / 7mm



Silicon Cap L=35mm for cable Ø 5,2 / 7mm Used with inductive transformer VIMAN and

Code: **17GO172601**

SPMAN outlets. Cappuccio in gomma naturale o silicone per cavi Ø 5,2 / 7mm usato nei trasformatori induttivi con uscite VIMAN o SPMAN



Type A PBT straight terminal cap for cables Ø 5,2 / 7mm

Code: **04PL041442**

Copriterminale tipo A in PBT dritto per cavi Ø 5,2 / 7mm



Silicone cap for Ø 6,3mm 90° plug connector for cables Ø 5,2 / 7mm

Code: **17GO172605**

Copriterminale in gomma siliconica- per connettore a 90° Ø6,3mm per cavi Ø 5,2 / 7mm

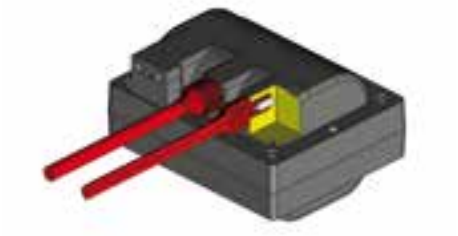


Silicone cap for Ø 4mm 90° plug connector for cables Ø 5,2 / 7mm

Code: **17GO172604**

Copriterminale in gomma siliconica per connettore a 90° Ø4mm per cavi Ø 5,2 / 7mm

FINISHED CABLE LENGTHS | SPEZZONI DI CAVO CABLATI



COFI realize primary and secondary silicone/copper or silicone/carbon fiber cables with custom-made lengths and finishing.

COFI realizza cavi primari e secondari in silicone/rame o silicone/fibra di carbonio con lunghezze e finiture su specifica.



PVC PROTECTION | PROTEZIONI IN PVC

Over molded on the cable ensures perfect sealing of the transformer outputs for protection against humidity in dirty and contaminated environments.

Sovrastampate sul cavo, garantiscono una perfetta tenuta delle uscite del trasformatore per una protezione dall'umidità in ambienti sporchi o contaminati.

COFI ignitions

HIGH-VOLTAGE CABLES | CAVI DI ALTA TENSIONE



Silicone/carbon fibre cable
1x1 Ø 7
Resistive cable 10 kOhm/m
Cable Ø 7 mm

Code:
09CA091868

Cavo di alta tensione in silicone Ø 7 con nucleo resistivo in fibra di carbonio R 10kohm/mt.



Silicone/carbon fibre cable
1x1 Ø 5.2 mm
Resistive cable 10 kOhm/m
Cable Ø 5.2 mm

Code:
09CA091869

Cavo di alta tensione in silicone Ø 5,2 con nucleo resistivo in fibra di carbonio R 10kohm/mt.



Silicone/copper cable 1x1
Ø 7 mm
Tear-resistant silicone cable, insulation
20kV EI 2 -50 +180°C

Sold in lengths or by meter

Code:
09CA091804M

Cavo di alta tensione in silicone Ø 7 con nucleo in rame 1x1

Silicone antistrappo con isolamento 20kV EI 2 -60 +180°C

Venduto a spezzoni o a metro



Silicone/copper cable 1x1
Ø 4.7 mm
Tear-resistant silicone cable, insulation
10kV EI 2 -60 +180°C

Sold in lengths or by meter

Code:
09CA091807

Cavo di alta tensione in silicone Ø 4,7 con nucleo in rame 1x1

Cavo in silicone antistrappo isolamento 10kV EI 2 -60 +180°C

Venduto a spezzoni o a metro



Ozone, PVC/copper cable 1x1
Ø 7 mm

PVC cable insulation 20kV EI 2 -20 +90°C

Sold in lengths or by meter

Code:
09CA091803

Cavo di alta tensione in PVC Ø 7 con nucleo in rame 1x1

Classe A cavo in PVC isolamento 20kV EI 2 -10 +90°C

Venduto a spezzoni o a metro

Cofi manufactures high voltage ignition cable for all market needs. From the simple copper wire with connector to more complex cable with carbon fiber conductor, connector and moulded protections. The High voltage cables with resistive conductor in carbon fiber and semi-conductive rubber are used for shielding electromagnetic disturbances. Our EMC laboratory is fully equipped with instrument for EMC measurements for cable's and filters verifications.

L'azienda costruisce cavi di alta tensione per tutte le esigenze. Dal semplice cavo in rame con un capocorda, a più complessi cavi con conduttore in fibra di carbonio, con i più svariati tipi di terminali e protezioni. Il laboratorio di misure COFI è in grado di verificare l'efficacia dei cavi usati come filtri EMI.

TRANSFORMERS CODE SYSTEM | SISTEMA DI CODIFICA

INDUCTIVE TRANSFORMERS CODE
CODICI TRASFORMATORI INDUTTIVI

TR	E	8	20	P	/1

- Z, E, S, G
- RMS Secondary Voltage [kV]
- RMS Secondary Current [mA]
- P = 1 pole
- C = continuos
- PISO = 1 pole insulated (4 wires)
- Numbers = input voltages, primary cable, plug/screw, outputs
- S = Plug for primary connection

ELECTRONIC TRANSFORMERS CODE
CODICI TRASFORMATORI ELETTRONICI

TR	K	1	-20	P	C	U	F	V	D

- K, J, H, L, W, M
- 1 halfwave
- 2 halfwave
- 3 controlled
- RMS Secondary Current [mA]
- 1 pole
- C = continuos
- U= 120V input
- F= without Y filter capacitor
- V = Vertical output
- H= Horizontal output
- D= Plug "D"
- K= Plug "K"

COFI ignitions



深圳市中力伟业机电设备有限公司

地址：广东省深圳市龙岗区龙岗街道龙园路482号

联系人：李经理

电话;15816882025