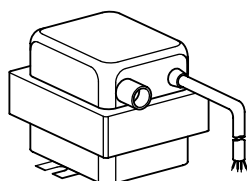
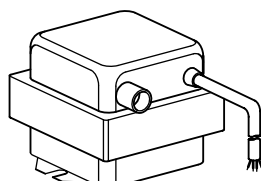


TZI, TGI

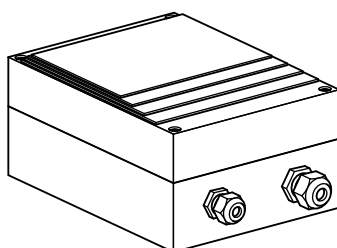
- Ⓓ **Zündtransformatoren**
- ⒼⒷ **Ignition transformers**
- Ⓕ **Transformateurs d'allumage**
- ⒶⒻ **Ontstekingstransformatoren**
- Ⓘ **Trasformatori di accensione**
- Ⓔ **Transformadores de encendido**
- ⒹⓀ **Tændtransformere**
- Ⓐ **Tändtransformatorer**
- Ⓐ **Tenningstransformatorer**
- Ⓐ **Transformadores de ignição**
- ⒼⓇ **Μετασχηματιστές ανάφλεξης**



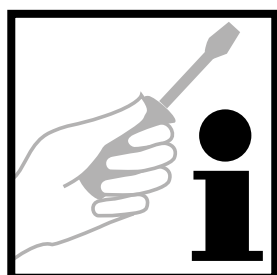
TZI 5-15/100
TZI 7-25/20



TZI 7,5-12/100
TZI 7,5-20/33



TGI





Warnung

Einbauen, Verdrahten nur durch autorisiertes Fachpersonal gemäß örtlichen Bestimmungen. TZI, TGI zur Hochspannungszündung von Gas- oder Ölbrennern. Trafos nie ohne angeschlossene Elektrode betreiben. Der Hochspannungslichtbogen kann Funkenstöße verursachen. Deshalb unterliegen Brenner und Anlagen mit angebaute TZI oder TGI der EMV-Richtlinie. Vom Anlagenhersteller ist die Einhaltung der Grenzwerte, z. B. nach EN 61000-6-4, nachzuweisen.

Warning

Installation and wiring may be carried out by authorized trained personnel only in accordance with local regulations. TZI, TGI for high-voltage spark ignition of gas or oil burners. Never operate transformers without having connected the electrode. The high-voltage arc may cause radio interference. For this reason, burners and systems with fitted TZI or TGI are subject to the EMC Directive. System manufacturers are to provide evidence of compliance with limits pursuant to EN 61000-6-4, for example.

Attention

Montage et câblage uniquement par un personnel spécialisé autorisé, conforme aux prescriptions locales. TZI, TGI pour l'allumage haute tension de brûleurs gaz ou fuel. Ne jamais faire fonctionner les transformateurs sans avoir raccordé l'électrode. L'arc électrique à haute tension peut causer des perturbations radioélectriques. C'est pourquoi les brûleurs et les installations avec TZI ou TGI intégrés sont soumis à la directive CEM. Pour les fabricants

d'installations, le respect des valeurs limites doit être établi, selon EN 61000-6-4 par exemple.

Waarschuwing

Inbouwen en bedraden uitsluitend door geautoriseerd vakpersoneel volgens de lokale bepalingen. TZI, TGI voor de hoogspanningsontsteking van gas- of oliebranders. Trafo's nooit zonder aangesloten elektrode gebruiken. De hoogspanningsvlamboom kan radiostoringen veroorzaken. Daarom zijn branders en installaties met aangebouwde TZI of TGI onderworpen aan de EMC-richtlijn. Door de producent van de installatie moet de inachtneming van de grenswaarden, bv. volgens EN 61000-6-4, worden aangetoond.

Attenzione

Montaggio e cablaggio solo ad opera di personale specializzato autorizzato conformemente alle disposizioni locali. TZI, TGI per l'accensione di bruciatori a gas o a gasolio. Non fare funzionare i trasformatori senza elettrodi collegati. L'arco voltaico dell'alta tensione può provocare radiodisturbi. Per tanto i bruciatori e gli impianti con TZI o TGI integrato sono soggetti alla direttiva EMC. Il costruttore dell'impianto deve comprovare l'osservanza dei valori limite, ad es. secondo EN 61000-6-4.

Advertencia

Montaje y cableado solo por personal especializado autorizado según las disposiciones locales. TZI y TGI para encendido mediante chispa de alta tensión de quemadores de gas y de fuel. No operar nunca los transformadores sin electrodo conectado. Los arcos eléctricos de alta tensión pueden causar interferencias. Por este motivo, los quemadores y las

instalaciones con TZI o TGI montado están sometidos a la directiva sobre la compatibilidad electromagnética. El fabricante de la instalación deberá justificar el cumplimiento de los valores límite, p. ej. según la norma EN 61000-6-4.

Advarsel

Indbygning og installation må kun udføres af autoriseret fagpersonale i henhold til bestemmelserne på stedet. TZI, TGI til højspændings-tænding af gas- eller oliebrændere. Transformere må aldrig bruges uden tilsluttet elektrode. Højspændingslysbusen kan forårsage radioforstyrrelser. Derfor er brændere og anlæg med monteret TZI eller TGI underkastet EMC-direktivet. Af den, som opretter anlægget, skal det dokumenteres, at grænseværdierne, fx iht. EN 61000-6-4, er overholdt.

OBS!

Montering og inkoopling endast genom auktoriserad personal enligt lokala bestämmelser. TZI, TGI för högsppäningsständning av gas- eller oljebrännare. Brännare och anläggningar med inbyggd TZI eller TGI är därför underkastade EMC-direktivet. Anläggningens tillverkare är skyldig att visa att gränsvärdet, t ex enligt EN 61000-6-4, följs.

Viktig

Montering og kabling kun av autorisert fagpersonale i henhold til lokale bestemmelser. TZI, TGI til høyspenningstening av gass- eller oljebrennere. Transformatorer må aldri drives uten tilkoplet elektrode. Høyspenningssystemet kan forårsake forstyrrelser i

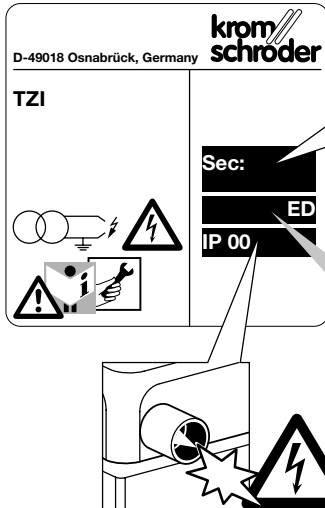
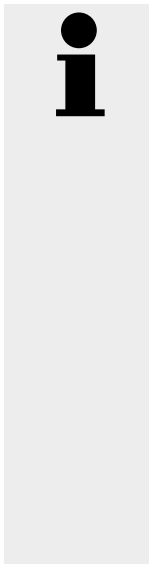
radiomottaking. Derfor er brennere og anlegg med påmontert TZI eller TGI underlagt EMC-direktivet. Fra produsenten av anlegget må det dokumenteres at grenseverdiene eksemplifere ifølge EN 61000-6-4 er overholdt.

Atenção

Somente pessoal treinado e autorizado deve proceder à montagem e à instalação elétrica de acordo com as normas locais. TZI, TGI para ignição por alta tensão de queimadores de gás ou de óleo. Nunca operar os transformadores sem o eletrodo conectado. O arco voltaico de alta tensão pode causar interferências radioelétricas. Por isto os queimadores e equipamentos com TZI ou TGI montado estão sujeitos à diretiva CEM. O fabricante do equipamento deve comprovar o cumprimento dos valores-limite, p.ex. de acordo com EN 61000-6-4.

Προειδοποίηση

Η τοποθέτηση, καλωδίωση επιτρέπονται μόνο σε εξουσιοδοτημένο ειδικό προσωπικό σύμφωνα με τους κατά τόπους κανονισμούς. TZI, TGI για ανάφλεξη υψηλής τάσης καυστήρων αερίου ή πετρελαίου. Απαγορεύεται η λειτουργία των συνδεδεμένων χωρίς ενδεδειγμένη χωρική απόσταση. Το βολταϊκό τόξο υψηλής τάσης ενδέχεται να προκαλέσει ραδιοφωνικές παρεμβολές. Ως εκ τούτου, ο καυστήρας και οι εγκαταστάσεις με ενσωματωμένο TZI ή TGI ανταποκρίνονται στην κατευθυντήρια οδηγία ΗΜΣ. Ο κατασκευαστής της εγκατάστασης υποχρεούται να αποδεικνύει τις οριακές τιμές, π.χ. σύμφωνα με EN 61000-6-4.



Strom über Schutzleiter.
Current via PE wire.
Courant sur conducteur de protection.
Stroom via aardleiding.
Corrente attraverso il conduttore di protezione.
Corriente por cable de tierra.
Strøm via beskyttelsesleder.
Ström via skyddsledare.
Strøm over jordledning.
Corrente através do fio-terra.
Ρεύμα μέσω αγωγού γείωσης.

$$t[s] = \frac{ED[\%]180 s}{100 \%}$$

Zeit nicht überschreiten.
Do not exceed the stated period.
Ne pas dépasser le temps.
Tijd niet overschrijden.
Non sorpassare il tempo indicato.
Não ultrapassar o tempo indicado.
Tiden må ikke overskrides.
Överskrid inte tiden.
Tiden må ikke overskrides.
Όχι υπέρβαση χρόνου.



Vorbereiten Préparation Préparation



Vorbereiden Preparazione Preparación

1 Spannungsfrei schalten
Disconnect from power supply
Mettre hors tension
Spanningsvrij schakelen
Togliere la corrente
Desconectar de la tensión

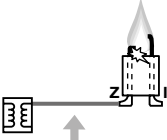
Forberedelse Förberedelse Forberedelser

Kobles spændingsfri
Bryt spänningen
Koble spenningsfri
Ligar sem tensão
Ρύθμιση σε κατάσταση χωρίς τάση





2



FZLSI 1/7 } -50 ... +180 °C
04250410 } -58 ... +350 °F

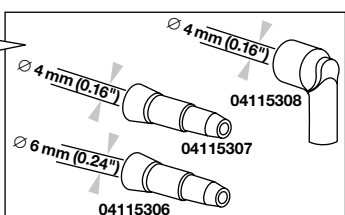
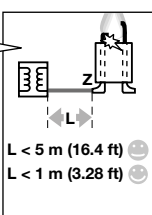
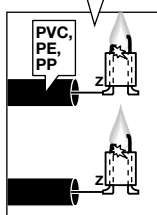
FLZK 1/7 } -5 ... +80 °C
04250409 } -23 ... +176 °F

3 **Zündleitung** einzeln verlegen, nicht im Metallrohr – großer Abstand zur Ionisationsleitung, Länge < 1 m (3,28 ft), max. 5 m (16,4 ft), entstörten Elektrodenstecker am Brenner verwenden. Lay **ignition lines** singly, do not use metal conduit – well away from ionization line; length < 1 m (3.28 ft), max. 5 m (16.4 ft); use interference-suppressed electrode plug on the burner. Poser les **câbles du circuit d'allumage** isolément ; ne pas utiliser de tube métallique – grande distance au circuit d'ionisation. Longueur < 1 m (3,28 ft), 5 m (16,4 ft) maxi., utiliser un embout d'électrode antiparasité sur le brûleur.

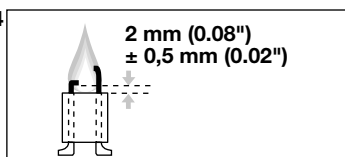
Ontstekingskabel afzonderlijk installeren, niet in metalen buis – grote afstand t.o.v. de ionisatiekabel, lengte < 1 m (3,28 ft), max. 5 m (16,4 ft), gebruik een ontstoorde elektrodenstecker aan de brander. Posare il **conduttore di accensione** singolarmente, non in tubo di metallo, mantenere una grande distanza dal conduttore di ionizzazione. Lunghezza < 1 m (3,28 ft), max. 5 m (16,4 ft), utilizzare sul bruciatore una pipetta dell'elettrodo schermata.

Tender el **cable de encendido** por separado y no en tubo metálico – mayor distancia para la línea de ionización. Largo < 1 m (3,28 ft), máx. 5 m (16,4 ft); utilizar clavija de electrodo desparasitada en el quemador.

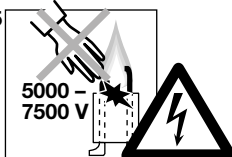
Tændledninger skal forlægges enkeltvist, ikke i metalrør – hold stor afstand til ionisationsledningen. Længde < 1 m (3,28 ft), max. 5 m (16,4 ft), benyt et støjfrit elektrodestik ved brænderen. Dra **tændledning** separat, ej i metallrør, med stort avstånd till ioniseringsledningen. Längd < 1 m (3,28 ft), max. 5 m (16,4 ft), använd avstörd elektrodkontakt på brännaren. **Tenningsledningen** legges ut enkeltvis, ikke i metallrør – stor afstand til ioniseringsledning. Lengde < 1 m (3,28 ft), maks. 5 m (16,4 ft), bruk et støydempet elektrodeplugg på brenneren. Montar o **cabo de ignição** individualmente, não em tubo de metal – distante bastante grande em relação do cabo de ionização. Comprimento < 1 m (3,28 ft), no máx. 5 m (16,4 ft), utilizar um conector do eletrodo supressor de interferências no queimador. Τοποθετήστε μεμονωμένα τον **αγωγό ανάφλεξης**, όχι μέσα σε μεταλλικό σωλήνα – μεγαλύτερη απόσταση από τον αγωγό ιονισμού. Μήκος < 1 m (3,28 ft), μέγ. 5 m (16,4 ft), χρησιμοποιήστε αντιπαρασιτικό φης ηλεκτροδίων στον καυστήρα.



4

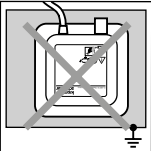
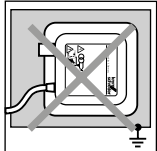
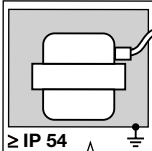
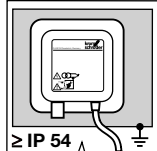


5



Einbaurage Installation position Position de montage Inbouwpositie	Posizione di montaggio Posición de montaje Indbygningsposition	Monteringsläge Montasjeposition Posição de montagem Θέση τοποθέτησης
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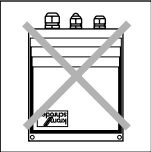
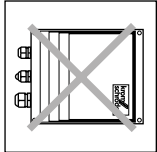
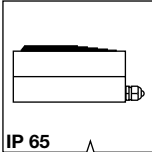
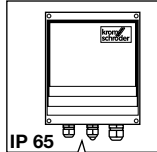
TZI



ACHTUNG! In externes Gehäuse mit Schutzart ≥ IP 54 einbauen. Gehäuse erden. **IMPORTANT!** Install in external housing with enclosure ≥ IP 54. Ground the housing. **ATTENTION!** Monter dans un boîtier externe avec le type de protection ≥ IP 54. Mettre le boîtier à la terre. **ATTENTIE!** In externe behuizing met beschermingswijze ≥ IP 54 inbouwen. Behuizing aarden.

ATTENZIONE! Montare nel corpo esterno con tipo di protezione ≥ IP 54. Mettere a terra il corpo. **¡ATENCIÓN!** En cuerpo exterior con grado de protección ≥ IP 54. Poner a tierra el cuerpo. **BEMÆRK!** Indbygges i eksternt kabinet med kapslingsklasse ≥ IP 54. Kabinettet forbindes med jord. **OBS!** Monter i eksternt skåp med kapslingsklass ≥ IP 54. Jorda skåpet. **OBS!** Skal monteres i eksternt hus med beskyttelsesart ≥ IP 54. Huset skal jordes. **ATENÇÃO!** Montar em caixa externa com tipo de proteção ≥ IP 54. Providenciar o aterramento da caixa. **ΠΡΟΣΟΧΗ!** Ενσωματώστε σε εξωτερικό περίβλημα με μόνωση ≥ IP 54. Γεώστε το περίβλημα.

TGI



ACHTUNG! Gehäuse erden. **IMPORTANT!** Ground the housing. **ATTENTION!** Mettre le boîtier à la terre. **ATTENTIE!** Behuizing aarden.

ATTENZIONE! Mettere a terra il corpo. **¡ATENCIÓN!** Poner a tierra el cuerpo. **BEMÆRK!** Kabinettet forbindes med jord. **OBS!** Jorda skåpet.

OBS! Huset skal jordes. **ATENÇÃO!** Providenciar o aterramento da caixa. **ΠΡΟΣΟΧΗ!** Γεώστε το περίβλημα.

Verdrahten
Wiring
Câblage

Bedraden
Cablaggio
Cableado

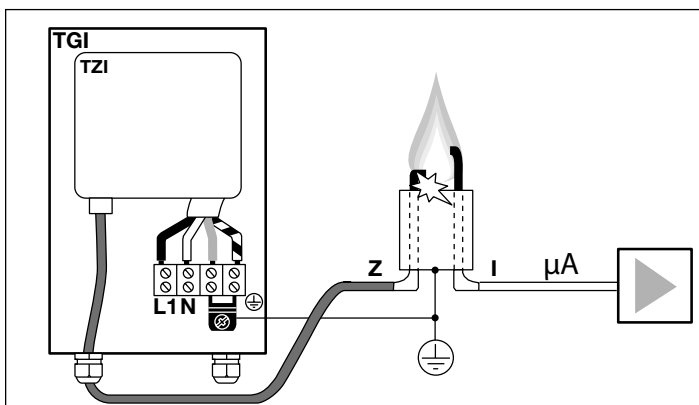
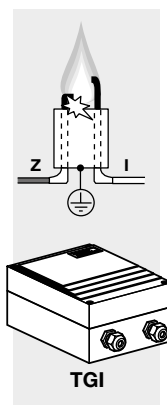
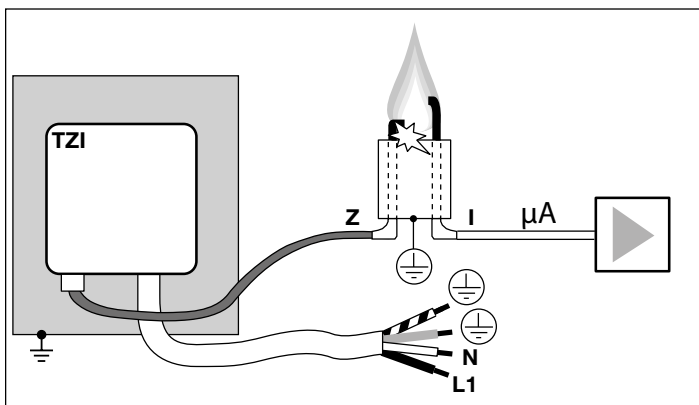
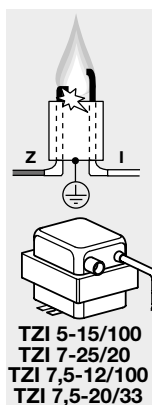
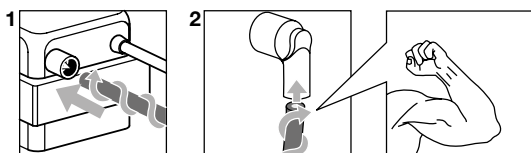
Eltíslutning
Inkoppling
Kabling

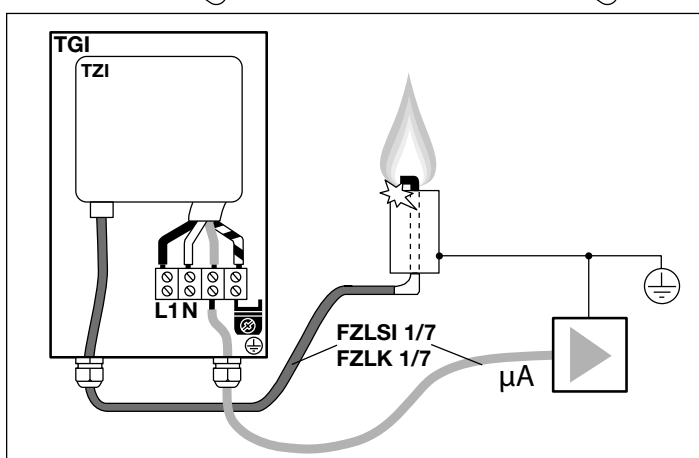
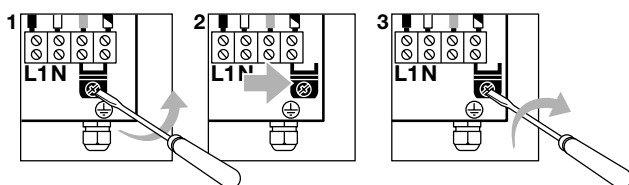
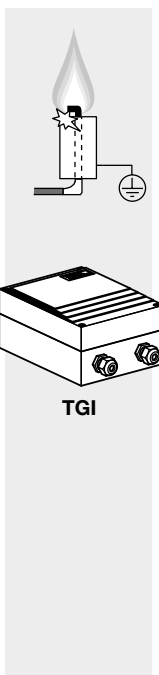
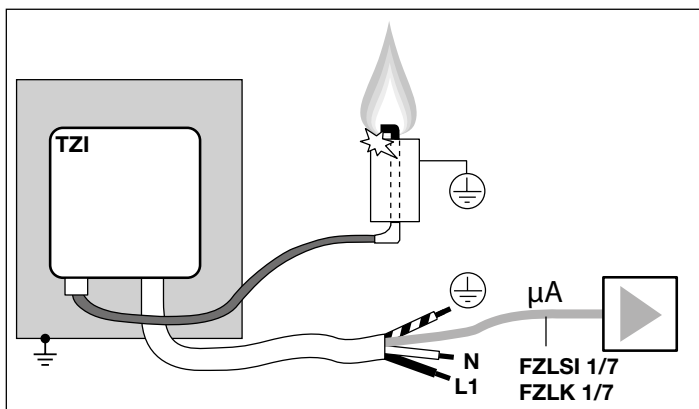
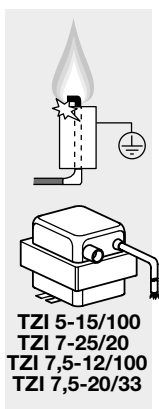
Instalação
elétrica
Καλωδίωση



Flammenüberwachung
Flame control
Contrôle de flamme
Vlambewaking
Controllo fiamma
Control de llama
Flammeovervågning
Flamöverbakning
Flammeovervåking
Controle da chama
Παρακολούθηση φλόγας

schwarz	blau	braun	grün/gelb
black	blue	brown	green/yellow
noir	bleu	brun	vert/jaune
zwart	blauw	bruin	groen/geel
nero	blu	marrone	verde/giallo
negro	azul	marrón	verde/amarillo
sort	blå	brun	grøn/gul
svart	blå	brun	grøn/gul
sort	blå	brun	grønn/gul
preto	azul	marrom	verde/amarelo
μαύρο	μπλε	καφέ	πράσινο/κίτρινο





Störungen
Faults
Défauts

Storingen
Guasti
Averias

Driftsforstyrrelser
Felsökning
Forstyrrelser

Avarias
Βλάβες

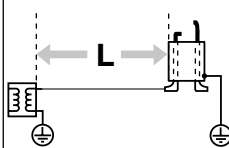
Störung
Fault
Défaut
Storing
Guasto
Averia
Fejl
Störning
Forstyrrelse
Falha
Βλάβη

???

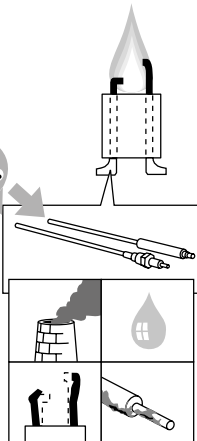
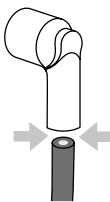
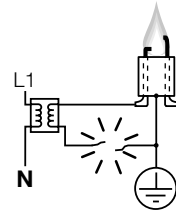
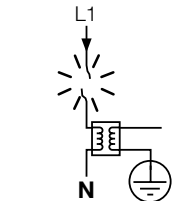


Kein Zündfunke
No ignition spark
Absence
d'étincelle
d'allumage
Geen
ontstekingsvonk
Non c'è scintilla
di accensione
No hay chispa de
encendido
Ingen tændgnist
Ingen tändgnista
Ingen tenningsgnist
Sem faiscas de
ignição
Χωρίς σπινθήρα
ανάφλεξης

Ursache
Cause
Cause
Oorzaak
Causa
Causa
Årsag
Orsak
Årsak
Causa
Αιτία



$L > 5\text{ m (16.4 ft)?}$



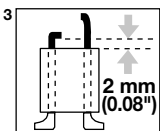
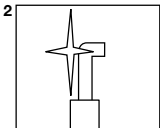
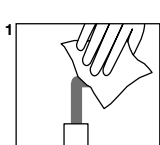
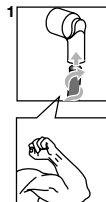
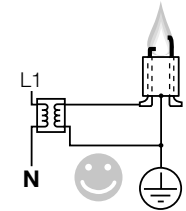
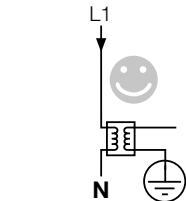
Abhilfe
Remedy
Remède
Remedie
Rimedio
Remedio
Udbedring
Åtgärd
Utbedring
Solução
Αντιμετώπιση



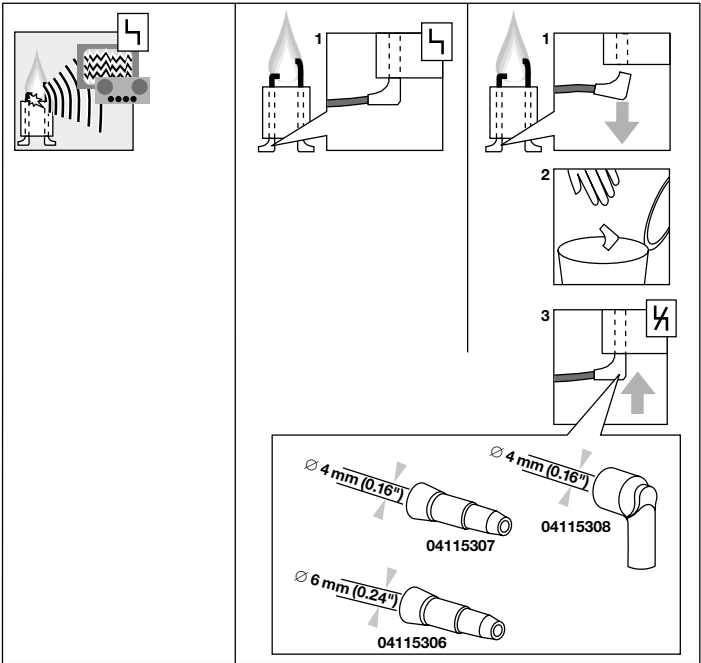
$L < 5\text{ m (16.4 ft)}$



$L < 1\text{ m (3.28 ft)}$



EMV-Störungen
 Electromagnetic
 interference
 Perturbations
 électromagnétiques
 EMC-störungen
 Disturbi di
 compatibilità
 elettromagnetica
 Anomalías en la
 compatibilidad
 electromagnética
 Elektromagnetiske
 kompatibilitets-
 forstyrrelser
 EMC-störningar
 Forstyrrelser m.h.t
 elektromagnetisk
 fordragelighet
 Avarias de
 compatibilidade
 electromagnética
 Βλάβες ΗΜΣ



REACH-Verordnung
 REACH Regulation
 Règlement REACH
 REACH-verordening
 Regolamento
 REACH
 Reglamentó
 REACH
 REACH-forordning
 REACH-förordning
 REACH-forordning
 Regulamento
 REACH
 Κανονισμός
 REACH

Das Gerät enthält besonders
 besorgniserregende Stoffe, die in
 der Kandidatenliste der
 europäischen REACH-Verordnung
 Nr. 1907/2006 gelistet sind. Siehe
 Reach list HTS auf
 www.docuthek.com.

The device contains substances of
 very high concern which are listed
 in the Candidate List of the
 European REACH Regulation No.
 1907/2006. See Reach list HTS at
 www.docuthek.com.

L'appareil contient des substances
 extrêmement préoccupantes qui
 figurent sur la liste des substances
 candidates du règlement européen
 REACH N° 1907/2006. Voir Reach
 list HTS sur le site
 www.docuthek.com.

Het apparaat bevat zeer
 zorgwekkende stoffen die in de
 kandidatenlijst van de Europese
 REACH-verordening nr. 1907/2006
 zijn opgenomen. Zie Reach list
 HTS op www.docuthek.com.

L'apparecchio contiene sostanze
 estremamente preoccupanti che
 sono presenti nell'elenco delle
 sostanze candidate del
 regolamento europeo REACH
 n° 1907/2006. Vedi Reach list HTS
 su www.docuthek.com.

El dispositivo contiene sustancias
 altamente preocupantes que
 figuran en la lista de candidatos del
 Reglamento europeo REACH n.º
 1907/2006. Ver Reach list HTS en
 www.docuthek.com.

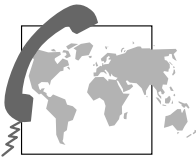
Enheten indeholder særligt
 problematiske stoffer, som er
 opført i kandidatlisten i den
 europæiske REACH-forordning
 Nr. 1907/2006. Se Reach list HTS
 på www.docuthek.com.

Apparaten innehåller ämnen som
 inger mycket stora betänkligheter
 och som är uppförda i
 kandidatförteckningen till
 REACH-förordningen nr
 1907/2006. Se Reach list HTS på
 www.docuthek.com.

Apparatet inneholder særlig
 bekymringsfulle stoffer, som står på
 kandidatlisten til den europeiske
 REACH-forordningen nr.
 1907/2006. Se Reach list HTS på
 www.docuthek.com.

O aparelho contém substâncias
 que suscitam elevada
 preocupação (SVHC) que figuram
 na Lista de Substâncias
 Candidatas do Regulamento
 europeu REACH N° 1907/2006.
 Ver Reach list HTS no site
 www.docuthek.com.

Η συσκευή περιέχει ουσίες που
 προκαλούν πολύ μεγάλη ανησυχία,
 οι οποίες αναφέρονται στον
 κατάλογο υποψηφίων ουσιών του
 ευρωπαϊκού κανονισμού REACH
 αριθ. 1907/2006. Βλέπε Reach list
 HTS στη διεύθυνση
 www.docuthek.com.



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Fax +49 (0)541 1214-547

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Εκφράζουμε τις επιφυλάξεις μας για αλλαγές που υπηρξούν την τεχνική πρόοδο.