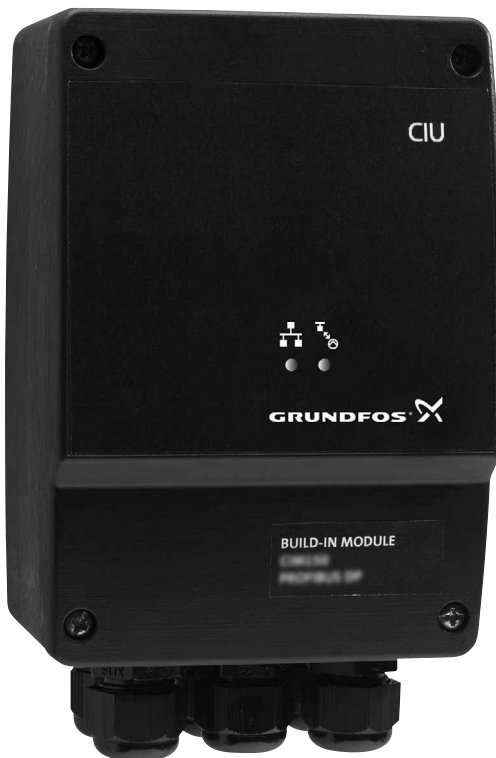


CIU - Communication Interface Unit

Installation and operating instructions



English (GB) Installation and operating instructions

Original installation and operating instructions.

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Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

Read the installation and operating instructions for the relevant CIM module.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury!

Caution

If these safety instructions are not observed, it may result in malfunction or damage to the equipment!

Note

Notes or instructions that make the job easier and ensure safe operation.

2. Applications

The Grundfos CIU unit (CIU = Communication Interface Unit) is used as a communication interface between a Grundfos product and a main network.

The CIU unit is used together with a CIM module (CIM = Communication Interface Module) fitted in the CIU unit.

GENIbus is used for internal communication between the CIU unit and a Grundfos product.

2.1 Nameplate

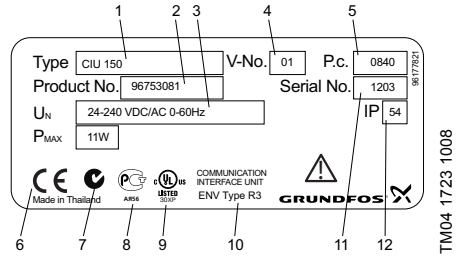






Fig. 1 Example of nameplate

Pos.	Description
1	Type designation
2	Product number
3	Supply voltage
4	Version number
5	Production code (year and week)
6, 7, 8, 9	Approvals and CE-marking
10	Environmental type
11	Serial number
12	Enclosure class

2.2 Explanation to symbols

Symbol	Designation	Description
	LED1	Red/green status LED for main network
	LED2	Status LED for internal communication between the CIM module and the Grundfos product
		Protective earth terminal
		Earth terminal

3. Installation kit

The CIU package contains these parts:

- CIU unit with CIM module
- DIN rail clip with screws
- installation and operating instructions for the CIU unit
- installation and operating instructions for the CIM module
- Quick Guide
- CD-ROM (software, functional profiles, installation and operating instructions).

Keep the CD-ROM and the installation and operating instructions so that they are easy to find when the CIU unit/CIM module is to be integrated into the main communications network.

Note

4. Installation

The CIU unit can be mounted on a wall or on a DIN rail in a control cabinet.

4.1 Wall mounting

Mount the CIU unit on the wall. See fig. 2 and the drilling template in the Quick Guide to the CIU unit.

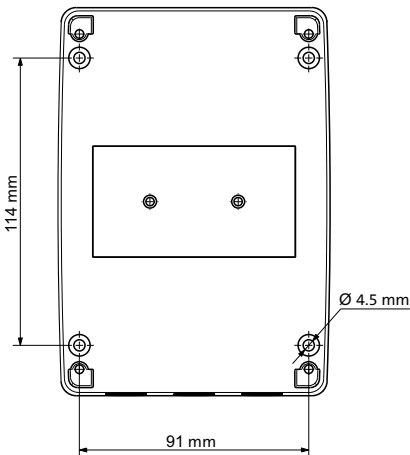


Fig. 2 Wall mounting of the CIU unit

4.2 Mounting in control cabinet

When the CIU unit is mounted in a control cabinet containing a frequency converter, it is especially important to ensure an EMC-correct installation of both the CIU unit, CIM module and frequency converter.

The following rules must therefore be observed:

- All cable screens must be connected to earth. If it is not possible to use cable clamps, the stripped part of the cable screen must be as short as possible to reduce the impedance at high frequencies.
- All units in the control cabinet must be connected to earth.

Mounting on DIN rail

The CIU unit is prepared for mounting on a 35 mm DIN rail (EN 50022).

1. Fix the DIN rail clip supplied on the CIU unit. See the instructions on the CIU unit.
2. Fit the CIU unit by hooking the top on the DIN rail and clicking the bottom onto the rail. See fig. 3.



Fig. 3 CIU unit on DIN rail

Dismounting from DIN rail

Remove the CIU unit by pulling it downwards and free of the DIN rail.

4.3 Electrical connection

The electrical connection should be carried out by an authorised electrician in accordance with local regulations.

Warning



Before beginning the electrical connection, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

Warning

Applies to supply voltages above 30 V_{RMS} / 60 VDC:



The installation must incorporate a circuit breaker in order to switch off the mains supply. It must be close to the CIU unit and easily accessible for the operator. It must be marked as circuit breaker for the CIU unit. The circuit breaker must be according to IEC 60947-1 and IEC 60947-3.

Warning



Branch circuit protection:

The CIU unit must be protected by a branch circuit fuse in accordance with local and national regulations.

Caution

Supply voltage to the CIU unit:
24-240 VAC/VDC - 10 %/+ 15 %.

Note

If the CIU unit is mounted on a DIN rail WITHOUT earth connection or on a wall, it must be connected to earth via the earth terminal. See fig. 4, pos. 4.

Caution

To ensure a stable and reliable communication, the cable screen for GENIbus connection must always be connected to the earth clamp. See fig. 5, pos. 4.

4.3.1 Connection of power supply and GENIbus



Warning

The CIU unit and GENIbus must only be connected to SELV or SELV-E circuits.

1. Remove the cover.
2. Connect the supply cable to the CIU unit (fig. 4, pos. 1, 2 and 3).
3. Loosen the earth clamp (fig. 5, pos. 4).
4. Connect the conductors to terminals A, Y and B (fig. 5, pos. 1, 2 and 3).
5. Connect the cable screen under the earth clamp, and tighten the earth clamp (fig. 5, pos. 4).
6. Connect the network cable to the CIM module. See the installation and operating instructions for the CIM module in question.
7. Fit the cover.

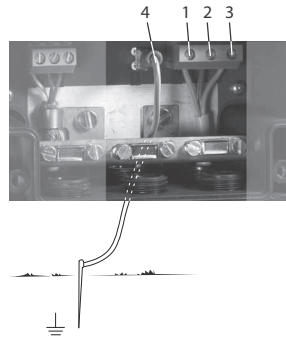


Fig. 4 Electrical connection and earthing

Pos.	Description
1	Protective earth terminal
2	Neutral terminal
3	Phase terminal
4	Earth terminal

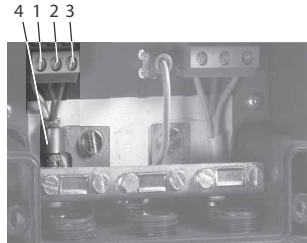


Fig. 5 GENIbus connection

Pos.	Designation	Description
1	A	GENIbus terminal A (positive data signal)
2	Y	GENIbus terminal Y
3	B	GENIbus terminal B (negative data signal)
4	-	Earth clamp

TM04 1985 1608

TM04 1730 1008

5. Technical data

Electrical data	
Supply voltage	24-240 VAC/VDC - 10 %/+ 15 %
Transient overvoltage	Category II
Frequency	0-60 Hz
Power consumption	Max. 11 W
Cable size	IEC: 0.2 - 4 mm ² UL: 24-12 AWG
Recommended cable type	Screened, double twisted-pair Cross-section: 0.25 - 1 mm ² AWG: 24-18 Maximum cable length: 1200 m / 4000 ft
Cable entry	6 x M16 Ø4 - Ø10
GENibus connection	
Transceiver	RS-485
Protocol	GENibus
Transmission speed	9600 bits/s
Environmental conditions	
Altitude above sea level	Maximum 2000 metres
Relative air humidity	Maximum 100 %
External pollution degree	Category 3
Enclosure class	IP54 according to IEC 60529 Type 3R according to UL 50 For indoor use only
Ambient temperature	
<ul style="list-style-type: none"> • During operation <ul style="list-style-type: none"> – CIU XXX – CIU 250-299 • During storage <ul style="list-style-type: none"> – CIU XXX – CIU 250-299 • During transportation <ul style="list-style-type: none"> – CIU XXX – CIU 250-299 	<ul style="list-style-type: none"> • -20 to +45 °C (-4 to +113 °F) • 0 to 40 °C (32 to 104 °F) (when battery is installed) • -20 to +60 °C (-4 to +140 °F) • -20 to +35 °C (-4 to +95 °F) (when battery is installed) • -20 to +60 °C (-4 to +140 °F) • -20 to +35 °C (-4 to +95 °F) (when battery is installed)

Caution

The CIU unit must not be exposed to direct sunlight.

6. Cleaning

The CIU unit must only be cleaned with a dry or wet cloth.

7. Disposal

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na koja se izjava odnosi u nastavku, u skladu s direktivama Vijeća dolje navedene o usklađivanju zakona država članica EU-a.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsele CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, la care se referă această declarație, sunt în conformitate cu Directivile de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, к которым относится нижеприведенная декларация, соответствующим нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднавяване на правните разпоредби на държавите-членки на ЕО.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, auf die sich diese Erklärung beziehen, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainusikulist vastutust selle eest, et toode CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastutetud õigusaktidele ühtustamise kohta EÜ liikmesriikides.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäviin Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU termékek, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktai CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que os produtos CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RS: Deklaracija o uskladenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådeledirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU ürünlerin, AB Üye ülkelerinin direktiflerini yakınlaştırılmasıyla ilgili durumun aşağıdaki KONSEY Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU，即该合格证书所指之产品，欧盟使其成员国法律趋于一致的以下理事会指令。

KO: EU

Grundfos CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU EU

ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

MK: Декларација за сообразност на ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека произведете CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, на кои се однесува допунаведената декларација, се во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในฐานะของบริษั Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU ซึ่งเกี่ยวข้องกับคำประกาศนี้ มีความสอดคล้องกับระเบียบค่าส่งตามรายการด้านล่างนี้ของสภาว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: Tuyên bố tuân thủ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

UA: Декларація відповідності директивам ЕУ

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, до яких відноситься нижченаведена декларація, відповідають директивам ЕУ, переліченим нижче, щодо тотожності законів країн-членів ЄС.

JP: EU 適合宣言

Grundfos は、その責任の下に、CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

AR: إقرار مطابقة EU

نقر نحن، جرونسفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU، اللذين يختص بهما الإقرار أدناه، وكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء المجموعة الأوروبية/الاتحاد الأوروبي (EU).

TW: EU 合格聲明

基蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produktet CIM 05x, CIM 1xx, CIM 2xx, CIM 3xx, CIU, me të cilat lidhet kjo deklaratë, janë në pajtueshmëri me direktivat e Këshillit të renditura më poshtë për përfaqërimin e ligjeve të shteteve anëtare të BE-së.

- Low Voltage Directive (2014/35/EU).
Standards used:
EN 61010-1:2010
- EMC Directive (2014/30/EU).
Standards used:
EN61326-1:2013

This EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication numbers 96846334 0516, 96846335 0516, 96846336 0516, 96846337 0516, 97532865 0516, 98353942 0516).

Bjerringbro, 12/11/2016



Svend Aage Kaee
Director
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