

SERIES

Precision modular connectors to suit your application

Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

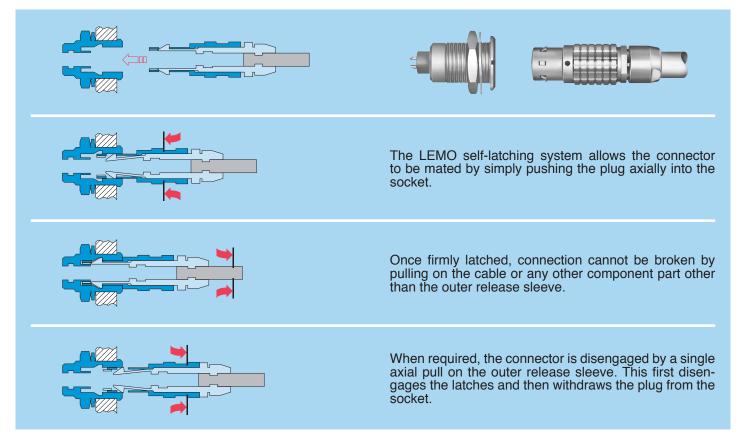
Over 75000 connectors

The modular design of the LEMO range provides over 75000 connectors from miniature ø 3 mm to ø 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts.

This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System (not shown in this catalogue)

This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



UL Recognition 🔊

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are recognized.

CE marking C €

CE marking $C \in$ means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking $C \in$ applies to complete products or equipment, but not to electromechanical components, such as connectors.

RoHS

LEMO connector specifications conforms the requirements of the RoHS directive (2011/65/EU) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.



SH-MH Series

The LEMO Hermaphroditic series provide a rugged high performance patented push-pull hermaphroditic interconnection system. These «genderless» connectors combine LEMO's well proven push-pull latching technology and the use of our standard high quality optical and electrical contacts.

The main features of these series are as follow:

security of a new patented push-pull hermaphroditic self-latching system

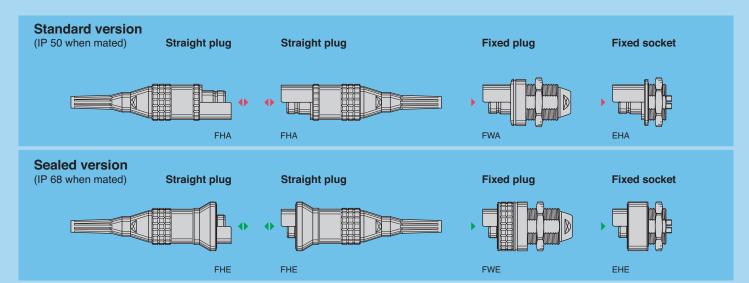
- 2 shell sizes, SH and MH series

– compact unsealed version for general purpose applications
 – rugged waterproof (IP 68) version for all outdoor applications

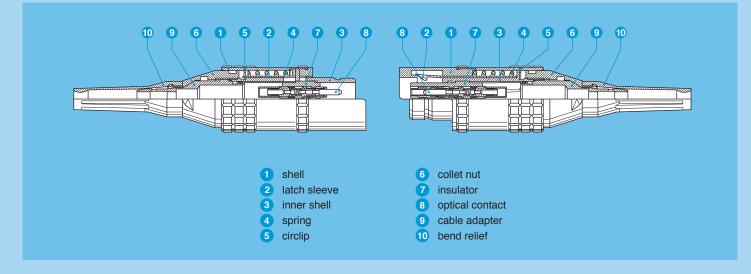
- a choice of multifibre or electrical contacts configurations
 lightweight design with shell in anthracite nickel-plated aluminium alloy
- low loss ceramic PC technology in multimode and singlemode

gold plated electrical contacts.

Each series consists of plug and socket which will accept cable diameter ranging from 3.6 mm to 10 mm. Initial program is giving solutions with 2, 4 or 6 fibre optic channel and 6 or 12 electrical contacts.



Part Section Showing Internal Components



Technical Characteristics Mechanical and Environmental

| Characteristics | | | Value | Standard | | |
|--------------------|--------------|-------------|------------------|-------------------------|--|--|
| Mating du | rability | | 2000 cycles | IEC 60512-5 test 9a | | |
| Temperat | ure ran | ge | -55°C t | to +125°C ¹⁾ | | |
| Vibration | resistar | nce | 10-2000 Hz, 15 g | IEC 60512-4 test 6d | | |
| Shock res | sistance | ; | 100 g, 6 ms | IEC 60512-4 test 6c | | |
| Protection | index | FHE/FHE | IP 68 | IEC 60529 | | |
| Water imr | nersion | FHE/FHE | up to 2 r | neters depth | | |
| Protection | index | FHA/FHA | IP 50 | IEC 60529 | | |
| | SH | plug/plug | 600 N | IEC 60512-8 test 15f | | |
| Average | J | | 300 N | IEC 60512-8 test 15f | | |
| latching retention | MH plug/plug | | 800 N | IEC 60512-8 test 15f | | |
| | series | plug/socket | 400 N | IEC 60512-8 test 15f | | |

Optical

| Characteristics | Value | Standard | Method |
|---|---------|-----------------|-------------------|
| Average insertion loss fibre 9/125 μ m | 0.18 dB | IEC 61300-03-34 | Method 2 |
| Average insertion loss fibre 50/125 μ m | 0.25 dB | IEC 61300-03-34 | Method 2 |
| Return loss fibre 9/125 μ m (UPC) | ≥45 dB | IEC 61300-03-06 | Coupler Method |
| Return loss fibre 9/125 μ m (Hand polish) | >25 dB | IEC 61300-03-06 | Coupler Method |

Materials and Treatments

| | | Surfac | ce trea | t (µm) | | |
|---------------------------------------|------------------------------|--------|---------|--------|--|--|
| Component | Material (Standard) | | nickel | | | |
| | | Cu | Ni | Au | | |
| Outer shell, collet nut ¹⁾ | Alum. (AA 6262A or AA 6023) | - | 5 | - | | |
| Latch sleeve | Special brass | 0.5 | 3 | - | | |
| Other metallic parts | Alum. (AA 6262A or AA 6023) | - | 5 | _ | | |
| Spring | Stainless steel | withou | ut trea | tment | | |
| Insulator | PEEK | withou | ut trea | tment | | |
| Electrical contacts | Brass (male)/Bronze (female) | 0.5 | 3 | 1 | | |
| O-ring and gaskets | Silicone MQ / MVQ | withou | ut trea | tment | | |

Notes: 1) anthracite colour

Electrical

| Characteristics | Value | Standard |
|-----------------------|--------------------|----------------------|
| Insulation resistance | $> 10^{12} \Omega$ | IEC 60512-2 test 3a |
| Contact resistance | < 3.6 mΩ | IEC 60512-2 test 11f |
| Shell resistance | < 10 mΩ | IEC 60512-2 test 2f |

Notes: ¹⁾ with f.o. contacts temperature range -40°C/+80°C

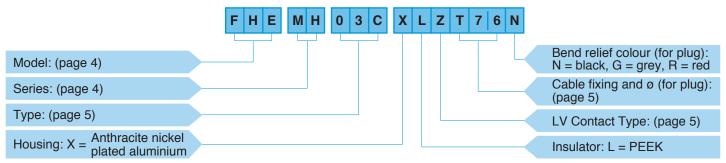
Part Number Example

A different part number structure is applicable for each of the following product types:

- Plugs and fixed sockets; fibre optic contacts.

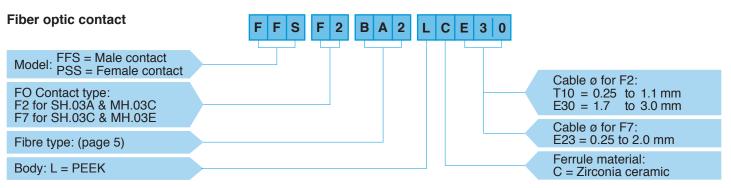
Note: The fibre optic contacts must be ordered separately. An equal number of contacts must be ordered (eg. for MH.03C; 2 x FFS.F2 and 2 x PSS.F2).

Straight plug with bend relief



FHE.MH.03C.XLZT76N = Straight plug (IP 68 when mated), MH series, multifibre to accept 4 F2 type fibre optic contacts, anthracite nickel plated aluminium shell, PEEK insulator, with cable fixing type T for 7.5 to 6.6 mm cable and black bend relief.

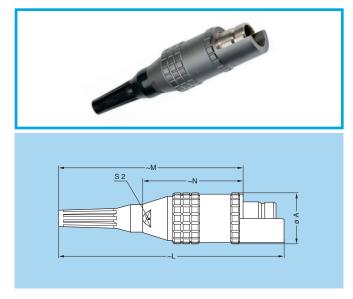




FFS.F2.BA2.LCE30 = Male F2 type fibre optic contact, ferrule bore diameter of 125 μ m, PEEK body, Zirconia ceramic ferrule, crimp cable fixing, for tight jacket cable with a diameter between 1.7 to 3.0 mm.

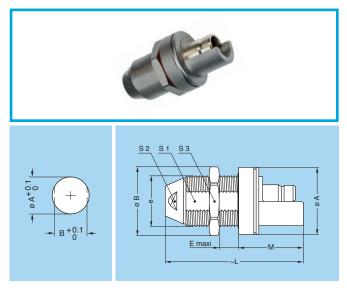


FHA Straight plug with cable adapter or collet and nut with bend relief



| Refe | rence | | Dimensions (mm) | | | | | |
|-------|--------|------------|-----------------|------|------|----|--|--|
| Model | Series | A L M N S2 | | | | | | |
| FHA | SH | 21.8 | 98.4 | 82.2 | 46.2 | 13 | | |
| FHA | МН | 25.4 | 109.3 | 89.1 | 47.1 | 15 | | |

FWA Fixed plug, nut fixing



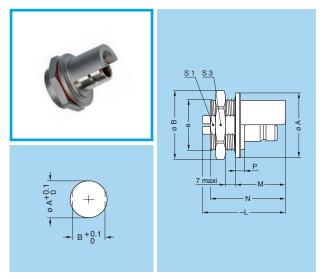
| Refe | rence | Dimensions (mm) | | | | | | | | |
|-------|--------|-----------------|----------------------|-------|----|------|------|------|----|----|
| Model | Series | Α | A B e E L M S1 S2 S3 | | | | | | | |
| FWA | SH | 28.5 | 28.5 | M22x1 | 14 | 55.0 | 26.5 | 20.5 | 14 | 25 |
| FWA | MH | 34.0 | 34.0 | M25x1 | 17 | 64.5 | 31.5 | 23.5 | 17 | 30 |

Panel cut-outs

| Oariaa | Dim. | (mm) | |
|--------|------|------|--|
| Series | øΑ | В | |
| SH | 22.2 | 20.6 | |
| МН | 25.2 | 23.6 | |



EHA Fixed socket, nut fixing



| | Refer | rence | Dimensions (mm) | | | | | | | | | |
|---|-------|---------|-----------------|------|-------|-------|--------|------|------|-----|------|----|
| | Model | Series | А | В | е | optic | elect. | М | Ν | Ρ | S1 | S3 |
| | EHA | SH | 27 | 28.5 | M22x1 | 38.8 | 30.5 | 19.5 | 30.5 | 3.3 | 20.5 | 25 |
| | EHA | МН | 32 | 34.0 | M25x1 | 40.8 | 37.0 | 24.5 | 37.0 | 4.3 | 23.5 | 30 |
| I | Panel | cut-out | S | | | | | | | | | |

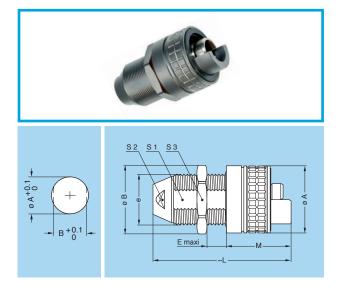
| Series | Dim. | (mm) |
|--------|------|------|
| Series | øΑ | В |
| SH | 22.2 | 20.6 |
| МН | 25.2 | 23.6 |

FHE Straight plug with cable adapter or collet and nut with bend relief (IP 68 when mated)



| Refer | rence | | Dimer | nsions | (mm) | |
|-------|--------|------------|-------|--------|------|----|
| Model | Series | A L M N S2 | | | | |
| FHE | SH | 28.5 | 98.4 | 90.0 | 54.0 | 13 |
| FHE | МН | 34.0 | 109.3 | 98.9 | 56.9 | 15 |

FWE Fixed plug, nut fixing (IP 68 when mated)



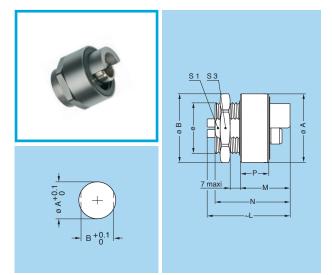
| Refe | rence | Dimensions (mm) | | | | | | | | |
|-------|--------|----------------------|------|-------|----|------|------|------|----|----|
| Model | Series | A B e E L M S1 S2 S3 | | | | | S3 | | | |
| FWE | SH | 28.5 | 28.5 | M22x1 | 14 | 55.0 | 26.5 | 20.5 | 14 | 25 |
| FWE | МН | 34.0 | 34.0 | M25x1 | 17 | 64.5 | 31.5 | 23.5 | 17 | 30 |

Panel cut-outs

| Corioo | Dim. | (mm) |
|--------|------|------|
| Series | øΑ | В |
| SH | 22.2 | 20.6 |
| МН | 25.2 | 23.6 |



Fixed socket, nut fixing (IP 68 when mated) EHE



| Refe | Reference | | | Dimension | | | | m) | | | |
|-------|-----------|------|------|-----------|---------------------|------|------|------|------|------|----|
| Model | Series | Α | В | е | e L optic elect. | | М | Ν | Р | S1 | S3 |
| EHE | SH | 28.5 | 28.5 | M22x1 | 38.8 | 30.5 | 19.5 | 30.5 | 11.1 | 20.5 | 25 |
| EHE | МН | 34.0 | 34.0 | M25x1 | 40.8 | 37.0 | 24.5 | 37.0 | 14.1 | 23.5 | 30 |

Panel cut-outs

| Series | Dim. (mm) | | |
|--------|-----------|------|--|
| Series | øΑ | В | |
| SH | 22.2 | 20.6 | |
| МН | 25.2 | 23.6 | |

Insert configuration

| [| | | | FO co | ontact | | | Low V | /oltage c | ontact | | |
|----|------|--------|-----------|-------|--------|------------|----------|-------------|-------------|-----------------------|----------------------|-------------------|
| | | | | | | | | Cor | ntact pe | | V dc) | A) |
| | | | e | | | qN | | AWG max. | AWG | age (k\ | age (k' | urrent (|
| | Plug | Socket | Reference | F2 Nb | F7 Nb | Contact Nb | ø A (mm) | Solder | Crimp | Test voltage (kV rms) | Test voltage (kV dc) | Rated current (A) |
| SH | | | 03A | 2 | - | - | _ | - | - | - | - | - |
| | | | 03C | - | 4 | - | _ | - | - | - | - | - |
| | | | 306 | - | - | 6 | 1.3 | 20 | 18-20 | 1.5 | 2.1 | 12 |
| МН | | | 03C | 4 | - | - | - | - | - | - | - | - |
| | | | 03E | - | 6 | - | - | - | - | _ | - | - |
| | | | 312 | - | - | 12 | 1.3 | 20 | 18-20 | 1.0 | 1.5 | 8 |

Note: Other arrangement, optical, electrical or mixed optical-electrical can be made available upon request. WARNING: There is no contact number on the insulator. When wiring one hermaphroditic connector, one should terminate each contact to its mirror image number of the other connector.



Electrical contact

| Reference | Contact type | Ref |
|-----------|-------------------|-----|
| Α | solder for plug | |
| С | crimp for plug | |
| L | solder for socket | |

| Contact type |
|------------------|
| crimp for socket |
| no contact |
| |

Fibre type

| Ref. for F2 contact | Ref. for F7 contact | | | Note |
|------------------------|------------------------|-------------------------|-----|------|
| BA2 | 125 | 9/125, 50/125, 62.5/125 | 125 | |
| BB2 | 126 | 9/125, 50/125, 62.5/125 | 126 | • |
| BD2 | 128 | 9/125, 50/125, 62.5/125 | 128 | 0 |

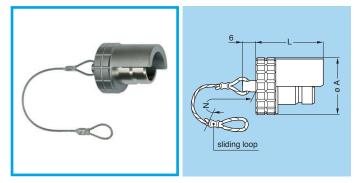
• First choice alternative O Special order alternative

| | | dapter «T» optic conr | | ctors Collet «C» for electrical connector | | |
|----|------------|--------------------------|------|--|---------|------|
| | Ref. | Cab | le ø | Ref. | Cable ø | |
| | 1101. | max. | min. | 1101. | max. | min. |
| SH | T46 | 4.5 | 3.6 | C52 | 5.0 | 4.1 |
| эп | T56 | 5.5 | 4.6 | C62 | 6.0 | 5.1 |
| | T66 | 6.5 | 5.6 | C72 | 7.0 | 6.1 |
| | T76 | 7.5 | 6.6 | C82 | 8.0 | 7.1 |
| мн | T56 | 5.5 | 4.6 | C62 | 6.0 | 5.1 |
| | T66 | 6.5 | 5.6 | C72 | 7.0 | 6.1 |
| | T76 | 7.5 | 6.6 | C82 | 8.0 | 7.1 |
| | Т86 | 8.5 | 7.6 | C92 | 9.0 | 8.1 |
| | T91 | 9.0 | 8.6 | C10 | 10.0 | 9.1 |

Accessories

Cable diameter

BFA Cap (for FHA and FWA plugs)

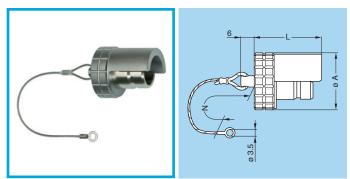


Body material: Anthracite nickel plated aluminium alloy

- Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass + polyolefin

Maximum operating temperature: 125°C Watertightness: IP50 according to IEC 60529

Cap (for FHA and FWA plugs) BHA



- Body material: Anthracite nickel plated aluminium alloy Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass + polyolefin Maximum operating temperature: 125°C Watertightness: IP50 according to IEC 60529

| Davit is use have | Dimensions (mm) | | | |
|-------------------|-----------------|------|-----------------|--|
| Part number | Α | L | N ¹⁾ | |
| BFA.SH.100.XAZ | 21.8 | 23.5 | 120 | |
| BFA.MH.100.XAZ | 25.4 | 30.0 | 120 | |

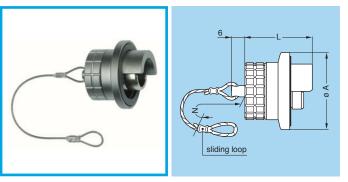
Note: 1) the tolerance on this dimension is ± 5 mm.

| Part number | Dimensions (mm) | | | |
|----------------|-----------------|------|-----------------|--|
| Part number | А | L | N ¹⁾ | |
| BHA.SH.100.XAZ | 21.8 | 23.5 | 120 | |
| BHA.MH.100.XAZ | 25.4 | 30.0 | 120 | |

Note: 1) the tolerance on this dimension is ± 5 mm.



Cap (for FHE and FWE plugs) BFE



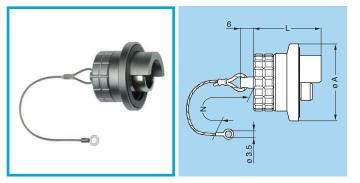
| Part number | Dimensions (mm) | | | |
|----------------|-----------------|------|-----------------|--|
| i art number | A | L | N ¹⁾ | |
| BFE.SH.100.XAS | 28.5 | 23.5 | 120 | |
| BFE.MH.100.XAS | 34.0 | 30.0 | 120 | |

Body material: Anthracite nickel plated aluminium alloy Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass + polyolefin O-ring material: Silicone rubber Maximum operating temperature: 125°C Watertightness: IP68 according to IEC 60529 •••••

- •

Note: 1) the tolerance on this dimension is ± 5 mm.

BHE **Cap** (for FHE and FWE plugs)

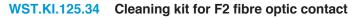


- •
- Body material: Anthracite nickel plated aluminium alloy Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass + polyolefin O-ring material: Silicone rubber Maximum operating temperature: 125°C Watertightness: IP68 according to IEC 60529
- •••••

| Part number | Dimensions (mm | | | |
|----------------|----------------|------|-----------------|--|
| i art nambol | A | L | N ¹⁾ | |
| BHE.SH.100.XAS | 28.5 | 23.5 | 120 | |
| BHE.MH.100.XAS | 34.0 | 30.0 | 120 | |

Note: ¹⁾ the tolerance on this dimension is ± 5 mm.

Tooling

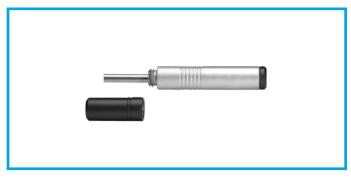




Description

Fibre optic cleaning kit of 2 cotton buds, 1 dry and 1 being soaked in IPA (Isopropyl Alcohol) used for cleaning the fibre optic contacts.





DCS Contact alignment device tool for F2 or F7 fibre optic contact



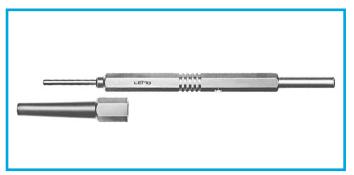
Description

Simple tool with two threaded end for installation/extraction of the F7 contact alignment device.

| Part number | Contact type | | |
|-----------------------------|--------------|--|--|
| DCS.F2.035.PN | F2 | | |
| DCS.F7.035.PN ¹⁾ | F7 | | |

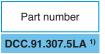
Note: 1) Included in the LEMO F7 workstation.

DCC Extractor for F7 fibre optic contact



Description

Manual tool for the extraction of the F7 contact.



Note: 1) Included in the LEMO F7 workstation.

Product safety notice

PLEASE READ AND FOLLOW ALL INSTUCTIONS CAREFULLY AND CONSULT ALL RELEVENT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION. IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock. Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification. Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalog however these may be influenced by PC board design and / or wiring harnesses. The test voltage indicated in the catalog is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING $C \in$

CE marking **C** emeans that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking CE applies to complete products or equipment, but not to electromechanical components, such as connectors.

6. PRODUCT IMPROVEMENTS

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

7. A WARNING (Prop 65 State of California)

Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm. LEMO products are exempt from proposition 65 warnings because they are manufactured, marketed, and sold solely for commercial and industrial use. For further information, please visit https://www.lemo.com/guality/LEMO-Prop-65-compliance-declaration.pdf.

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