Step Motor Controller

- **New EtherCAT® Type**
- **New PROFINET® Type**
- **New DeviceNet® Type**
- **New EtherNet/IP® Type**

**Application Examples**

Both air and electric systems can be established under the same protocol.

**Electric Actuators**

- Electric actuator/Slider type LEF Series
- Electric actuator/Low profile slider type LEM Series
- Electric actuator/Miniature type LEPY/LEPS Series
- Electric actuator/Guide rod slider LEL Series
- Electric actuator/Rod type LEY/LEYG Series
- Electric gripper LEH Series
- Electric actuator/ Rotary table LER Series

**Air Cylinders**

- EX260

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**Two types of operation command**

- **Step no. defined operation**: Operate using the preset step data in the controller.
- **Numerical data defined operation**: The actuator operates using values such as position and speed from the PLC.

**Numerical monitoring available**

Numerical information, such as the current speed, current position, and alarm codes, can be monitored on the PLC.

**Transition wiring of communication cables**

Two communication ports are provided.

- For the DeviceNet™ type, transition wiring is possible using a branch connector.

**INFORMATION**

JXCE1/91/P1/D1 Series
JXCE1/91/P1/D1 Series

System Construction

- **Electric actuators**
  - LEY/LEYG Series
  - LEF Series
  - LES/LESH Series
  - LER Series
  - LEL Series
  - LEPY/LEPS Series
  - LEH Series
  - LEM Series

- **Actuator cable**
  - Standard cable: LE-CP-1/S
  - Robotic cable: LE-CP-

- **Power supply for controller**
  - 24 V DC

- **PLC**
  - Provided by customer

- **Conversion cable**
  - Connector for DeviceNet™
  - Straight type: JXC-CD-S
  - T-branch type: JXC-CD-T

- **Options**
  - **Teaching box**
    - (With 3 m cable)
    - LEC-T1-3JG
  - **Controller setting kit**
    - Controller setting kit
      - (Communication cable, conversion unit, and USB cable are included.)
    - LEC-W2
  - **Conversion cable**
    - P5062-S
    - (0.3 m)
    - The conversion cable can be used for connecting this controller to the optional teaching box [LEC-T1] or the controller setting kit [LEC-W2] offered with the LEC series.

- **Communication plug**
  - Connector for DeviceNet™
  - P.6

- **USB cable**
  - (A-mini B type)
  - (0.3 m)

**Notes**
- **Conversion cable**
  - To connect the teaching box or LEC controller setting kit communication cable to the controller, a conversion cable is required.
**Actuator + Controller**

**LEFS16B-100** - **R1 CD17T**

- **Controller**
  - Without controller
  - With controller

**Actuator type**

Refer to “How to Order” in the actuator catalogue available at [www.smc.eu](http://www.smc.eu). For compatible actuators, refer to the table below. Example: LEFS16B-100B-R1C917

<table>
<thead>
<tr>
<th>Electric Actuator/Rod</th>
<th>LEY Series</th>
<th>Electric Actuator/Guide Rod</th>
<th>LEYG Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Actuator/Slider</td>
<td>LEF Series</td>
<td>Electric Slide Table</td>
<td>LES/LESH Series</td>
</tr>
<tr>
<td>Electric Rotary Table</td>
<td>LER Series</td>
<td>Electric Actuator/Guide Rod Slider</td>
<td>LESL Series</td>
</tr>
<tr>
<td>Electric Actuator/Miniature</td>
<td>LEPY/LEPS Series</td>
<td>Electric Actuator/Low Profile Slider</td>
<td>LEM Series</td>
</tr>
</tbody>
</table>

- **Actuator cable type/length**
  - Without cable
  - S1 Standard cable 1.5 m
  - S3 Standard cable 3 m
  - S5 Standard cable 5 m
  - R1 Robotic cable 1.5 m
  - R3 Robotic cable 3 m
  - R5 Robotic cable 5 m
  - R8 Robotic cable 8 m
  - RA Robotic cable 10 m
  - RB Robotic cable 15 m
  - RC Robotic cable 20 m

- **Controller**

- **Communication protocol**
  - E EtherCAT®
  - 9 EtherNet/IP™
  - P PROFINET
  - D DeviceNet™

- **Mounting**
  - Screw mounting
  - DIN rail

- **Communication plug connector for DeviceNet™**
  - Without plug connector
  - S Straight type
  - T T-branch type

- **Precautions for blank controllers**
  - A blank controller is a controller to which the customer can write the data of the actuator it is to be combined and used with. Use the dedicated software (JXC-BCW) for data writing.
  - Please download the dedicated software (JXC-BCW) via our website.
  - Order the controller setting kit (LEC-W2) separately to use this software.

- **Controller part number**

- **Communication protocol**
  - E EtherCAT®
  - 9 EtherNet/IP™
  - P PROFINET
  - D DeviceNet™

- **Communication plug connector for DeviceNet™**
  - Without plug connector
  - S Straight type
  - T T-branch type

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**How to Order**

- Please download the dedicated software (JXC-BCW) via our website.
- Order the controller setting kit (LEC-W2) separately to use this software.

**SMC website**

[http://www.smcworld.com](http://www.smcworld.com)
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>JXCE1</th>
<th>JXC91</th>
<th>JXCP1</th>
<th>JXCD1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td>EtherCAT®</td>
<td>EtherNet/IP™</td>
<td>PROFINET</td>
<td>DeviceNet™</td>
</tr>
<tr>
<td>Compatible motor</td>
<td>Step motor (Servo/24 V DC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>Power voltage: 24 V DC ±10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption (Controller)</td>
<td>200 mA or less</td>
<td>130 mA or less</td>
<td>200 mA or less</td>
<td>100 mA or less</td>
</tr>
<tr>
<td>Compatible encoder</td>
<td>Incremental A/B phase (800 pulse/rotation)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Applicable system</td>
<td>Protocol</td>
<td>Version *1</td>
<td>Protocol</td>
<td>Version *1</td>
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<tr>
<td>Communication speed</td>
<td>EtherCAT®</td>
<td>Conformance Test Record V.1.2.6</td>
<td>Volume 1 (Edition 3.14)</td>
<td>Volume 1 (Edition 3.14)</td>
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<tr>
<td>Configuration file *3</td>
<td>ESI file</td>
<td>EDS file</td>
<td>GSDML file</td>
<td>EDS file</td>
</tr>
<tr>
<td>I/O occupation area</td>
<td>Input 20 bytes</td>
<td>Input 36 bytes</td>
<td>Input 36 bytes</td>
<td>Input 4, 10, 20 bytes</td>
</tr>
<tr>
<td>Terminating resistor</td>
<td>Not included</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>EEPROM</td>
<td></td>
<td></td>
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<tr>
<td>LED indicator</td>
<td>PWR, RUN, ALM, ERR</td>
<td>PWR, ALM, MS, NS</td>
<td>PWR, ALM, SF, BF</td>
<td>PWR, ALM, MS, NS</td>
</tr>
<tr>
<td>Cable length [m]</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cooling system</td>
<td>Natural air cooling</td>
<td></td>
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</tr>
<tr>
<td>Operating temperature range [°C]</td>
<td>0 to 40 (No freezing)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating humidity range [%RH]</td>
<td>90 or less (No condensation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation resistance [MΩ]</td>
<td>Between all external terminals and the case 50 (500 V DC)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Weight [g]</td>
<td>220 (Screw mounting) 240 (DIN rail mounting)</td>
<td>210 (Screw mounting) 230 (DIN rail mounting)</td>
<td>220 (Screw mounting) 240 (DIN rail mounting)</td>
<td>210 (Screw mounting) 230 (DIN rail mounting)</td>
</tr>
</tbody>
</table>

*1 Please note that versions are subject to change.
*2 Use a shielded communication cable with CAT5 or higher for the PROFINET, EtherNet/IP™, and EtherCAT®.
*3 The files can be downloaded from the SMC website: http://www.smc.eu

Trademark
EtherNet/IP™ is a trademark of ODVA.
DeviceNet™ is a trademark of ODVA.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Example of Operation Command

In addition to the step data input of 64 points maximum in each communication protocol, the changing of each parameter can be performed in real time in the numerical data defined operation.

<Application example> Movement between 2 points

<table>
<thead>
<tr>
<th>No.</th>
<th>Movement mode</th>
<th>Speed</th>
<th>Position</th>
<th>Acceleration</th>
<th>Deceleration</th>
<th>Pushing force</th>
<th>Trigger LV</th>
<th>Pushing speed</th>
<th>Moving force</th>
<th>Area 1</th>
<th>Area 2</th>
<th>In position</th>
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<tbody>
<tr>
<td>0</td>
<td>1: Absolute</td>
<td>100</td>
<td>10</td>
<td>3000</td>
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<td>0</td>
<td>100</td>
<td>0</td>
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<td>0.50</td>
</tr>
<tr>
<td>1</td>
<td>1: Absolute</td>
<td>100</td>
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<td>3000</td>
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<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0.50</td>
</tr>
</tbody>
</table>

<Step No. defined operation>
Sequence 1: Servo ON instruction
Sequence 2: Instruction to return to origin
Sequence 3: Specify step data No. 0 to input the DRIVE signal.
Sequence 4: Specify step data No. 1 after the DRIVE signal has been temporarily turned OFF to input the DRIVE signal.

<Numerical data defined operation>
Sequence 1: Servo ON instruction
Sequence 2: Instruction to return to origin
Sequence 3: Specify step data No. 0 and turn ON the input instructions flag (position), Input 10 in the target position. Subsequently the start flag turns ON.
Sequence 4: Turn ON step data No. 0 and the input instructions flag (position) to change the target position to 100 while the start flag is ON.

The same operation can be performed with any operation command.
Step Motor Controller  
**JXCE1/91/P1/D1 Series**

### Dimensions

#### JXCE1

- 67 mm x 12 mm
- 10 mm x 90 mm (35 mm)
- 35 mm x 187.3 mm (When locking DIN rail)
- 193.2 mm (When removing DIN rail)

#### JXC91

- 67 mm x 11.5 mm
- 10 mm x 90 mm (35 mm)
- 35 mm x 187.3 mm (When locking DIN rail)
- 193.2 mm (When removing DIN rail)

- Mountable on DIN rail (35 mm)
- For body mounting (Screw mounting)
### Dimensions

#### JXCP1

![Diagram of JXCP1]

- Mountable on DIN rail (35 mm)

#### JXCD1

![Diagram of JXCD1]

- Mountable on DIN rail (35 mm)

### L Dimensions [mm]

<table>
<thead>
<tr>
<th>No.</th>
<th>1</th>
<th>2</th>
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<th>4</th>
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<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
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<tbody>
<tr>
<td>L</td>
<td>23</td>
<td>35.5</td>
<td>48</td>
<td>60.5</td>
<td>73</td>
<td>85.5</td>
<td>98</td>
<td>110.5</td>
<td>123</td>
<td>135.5</td>
<td>148</td>
<td>160.5</td>
<td>173</td>
<td>185.5</td>
<td>198</td>
<td>210.5</td>
<td>223</td>
<td>235.5</td>
<td>248</td>
<td>260.5</td>
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<tr>
<td></td>
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<tr>
<td>L</td>
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<td>285.5</td>
<td>298</td>
<td>310.5</td>
<td>323</td>
<td>335.5</td>
<td>348</td>
<td>360.5</td>
<td>373</td>
<td>385.5</td>
<td>398</td>
<td>410.5</td>
<td>423</td>
<td>435.5</td>
<td>448</td>
<td>460.5</td>
<td>473</td>
<td>485.5</td>
<td>498</td>
<td>510.5</td>
</tr>
</tbody>
</table>
Options

- DIN rail AXT100-DR-
  - For □, enter a number from the No. line in the table. (Page 5)
  - Refer to the dimension drawings (Page 5) for the mounting dimensions.

- Conversion cable P5062-5 (Cable length: 0.3 m)

- DIN rail mounting adapter
  LEC-3-D0 (with 2 mounting screws)
  This should be used when a DIN rail mounting adapter is mounted onto a screw mounting type controller afterwards.

- Power supply plug JXC-CPW
  - The power supply plug is an accessory.

Communication plug connector for DeviceNet™

Straight type  T-branch type
JXC-CD-S    JXC-CD-T

Communication plug connector for DeviceNet™

<table>
<thead>
<tr>
<th>Terminal name</th>
<th>Function</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>V+, M24V</td>
<td>Power supply (+) for DeviceNet™</td>
<td></td>
</tr>
<tr>
<td>CAN_H</td>
<td>Communication wire (High)</td>
<td></td>
</tr>
<tr>
<td>Drain</td>
<td>Grounding wire/Shielded wire</td>
<td></td>
</tr>
<tr>
<td>CAN_L</td>
<td>Communication wire (Low)</td>
<td></td>
</tr>
<tr>
<td>V–</td>
<td>Power supply (–) for DeviceNet™</td>
<td></td>
</tr>
</tbody>
</table>

Power supply plug

<table>
<thead>
<tr>
<th>Terminal name</th>
<th>Function</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0V</td>
<td>Common supply (–)</td>
<td>M24V terminal/C24V terminal/EMG terminal/LK RLS terminal are common (–).</td>
</tr>
<tr>
<td>M24V</td>
<td>Motor power supply (+)</td>
<td>Motor power supply (+) of the controller</td>
</tr>
<tr>
<td>C24V</td>
<td>Control power supply (+)</td>
<td>Control power supply (+) of the controller</td>
</tr>
<tr>
<td>EMG</td>
<td>Stop (+)</td>
<td>Connection terminal of the external stop circuit</td>
</tr>
<tr>
<td>LK RLS</td>
<td>Lock release (+)</td>
<td>Connection terminal of the lock release switch</td>
</tr>
</tbody>
</table>

For /L52408, enter a number from the No. line in the table. (Page 5)
Refer to the dimension drawings (Page 5) for the mounting dimensions.
Warning

1. Use the specified voltage.
If the applied voltage is higher than the specified voltage, malfunction and damage to the controller may result. If the applied voltage is lower than the specified voltage, there is a possibility that the load cannot be moved due to internal voltage drop. Check the operating voltage prior to start.

2. Do not use the products outside the specifications.
Otherwise, fire, malfunction or damage to the product can result. Check the specifications prior to use.

3. Install an emergency stop circuit.
Install an emergency stop outside the enclosure in easy reach to the operator so that the operator can stop the system operation immediately and intercept the power supply.

4. To prevent danger and damage due to a breakdown or malfunction of these products, a backup system should be arranged in advance by using a multi-layered structure or by making a fail-safe equipment design, etc.

5. If there is a risk of fire or personal injury due to abnormal heat generation, sparking, smoke generated by the product, etc., cut off the power supply from this product and the system immediately.

Handling

Warning

8. Check the voltage using a tester at least 5 minutes after power-off when performing installation, wiring and maintenance.
Otherwise, electric shock, fire or injury can result.

9. Static electricity may cause a malfunction or damage the controller. Do not touch the controller while power is supplied to it.
Take sufficient safety measures to eliminate static electricity when it is necessary to touch the controller for maintenance.

10. Do not use the products in an area where they could be exposed to dust, metallic powder, machining chips or splashes of water, oil or chemicals.
Otherwise, a failure or malfunction can result.

11. Do not use the products in a magnetic field.
Otherwise, a malfunction or failure can result.

12. Do not use the products in an environment where flammable, explosive or corrosive gases, liquids or other substances are present.
Otherwise, fire, explosion or corrosion can result.

13. Avoid heat radiation from strong heat sources, such as direct sunlight or a hot furnace.
Otherwise, it will cause a failure to the controller or its peripheral devices.

14. Do not use the products in an environment with cyclic temperature changes.
Otherwise, it will cause a failure to the controller or its peripheral devices.

15. Do not use the products in an environment where surges are generated.
Devices (solenoid type lifters, high frequency induction furnaces, motors, etc.) that generate a large amount of surge around the product may lead to deterioration or damage to the internal circuits of the products. Avoid supplies of surge generation and crossed lines.

16. Do not install the products in a place subject to vibration and impact.
Otherwise, a malfunction or failure can result.

17. When a surge generating load such as a relay or solenoid valve is directly driven, use a product that incorporates a surge absorbing element.

18. The power supplies should be separated between the controller power and the I/O signal power, and both power supplies must not be of “inrush current limited” type.
If the power supply is of “inrush current limited” type, a voltage drop may occur during the acceleration or deceleration of the actuator.
**Warning**

1. Install the controller and its peripheral devices on fireproof material. Direct installation on or near flammable material may cause fire.

2. Do not install these products in a place subject to vibration and impact. Otherwise, a malfunction or failure can result.

3. Do not mount the controller and its peripheral devices on the same base together with a large-sized electromagnetic contactor or no-fuse breaker that generate vibration. Mount them on different base plates, or keep the controller and its peripheral devices away from such vibration supplies.

4. Install the controller and its peripheral devices on a flat surface. If the mounting surface is not flat or uneven, excessive force may be applied to the housing and other parts resulting in a malfunction.

5. Take measure so that the operating temperature of the controller and its peripheral devices are within the range of the specifications. Also, the controller should be installed with 50 mm or larger spaces between each side of it and the other structures or components. Otherwise, it may cause the controller and its peripheral devices to fail and can result in a fire.

**Power Supply**

**Warning**

1. Use a power supply with low noise between lines and between power and ground. In cases where noise is high, use an isolation transformer.

2. Take appropriate measures to prevent surges from lightning. Ground the surge absorber for lightning separately from the grounding of the controller and its peripheral devices.

**Grounding**

**Warning**

1. Make sure the product is grounded to ensure the noise tolerance of the controller.

2. Use a dedicated grounding. Use a D-class grounding (ground resistance 100 Ω or less).

3. The grounding point should be as close as possible to the controller, and the ground wires as short as possible.

4. In the unlikely event that malfunction is caused by the ground, it may be disconnected.

**Maintenance**

**Warning**

1. Perform maintenance checks periodically. Confirm wiring and screws are not loose. Loose screws or wires may cause unexpected malfunction.

2. Conduct an appropriate functional inspection and test after completed maintenance. In case of any abnormalities (if the actuator does not move or the equipment does not operate properly, etc.), stop the operation of the system. Otherwise, unexpected malfunction may occur and safety cannot be assured. Conduct a test of the emergency stop to confirm the safety of the equipment.

3. Do not disassemble, modify or repair the controller or its peripheral devices.

4. Do not put anything conductive or flammable inside the controller. Otherwise, fire can result.

5. Do not conduct an insulation resistance test or insulation withstand voltage test.

6. Reserve sufficient space for maintenance. Design the system so that it allows required space for maintenance.
<table>
<thead>
<tr>
<th>Country</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>+43 (0)269262800</td>
<td><a href="http://www.smc.at">www.smc.at</a></td>
<td><a href="mailto:office@smc.at">office@smc.at</a></td>
</tr>
<tr>
<td>Belgium</td>
<td>+32 (0)3351484</td>
<td><a href="http://www.smpcneumatics.be">www.smpcneumatics.be</a></td>
<td><a href="mailto:info@smcneumatics.be">info@smcneumatics.be</a></td>
</tr>
<tr>
<td>Bulgaria</td>
<td>+359 (0)2807670</td>
<td><a href="http://www.smc.bg">www.smc.bg</a></td>
<td><a href="mailto:office@smc.bg">office@smc.bg</a></td>
</tr>
<tr>
<td>Croatia</td>
<td>+385 (0)13707288</td>
<td><a href="http://www.smc.hr">www.smc.hr</a></td>
<td><a href="mailto:office@smc.hr">office@smc.hr</a></td>
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<tr>
<td>Czech Republic</td>
<td>+420 541424611</td>
<td><a href="http://www.smc.cz">www.smc.cz</a></td>
<td><a href="mailto:office@smc.cz">office@smc.cz</a></td>
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<tr>
<td>Denmark</td>
<td>+45 70252900</td>
<td><a href="http://www.smc.dk">www.smc.dk</a></td>
<td><a href="mailto:smc@smcdk.com">smc@smcdk.com</a></td>
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<tr>
<td>Estonia</td>
<td>+372 6510370</td>
<td><a href="http://www.smpcneumatics.ee">www.smpcneumatics.ee</a></td>
<td><a href="mailto:smc@smcneumatics.ee">smc@smcneumatics.ee</a></td>
</tr>
<tr>
<td>Finland</td>
<td>+358 207515513</td>
<td><a href="http://www.smc.fi">www.smc.fi</a></td>
<td><a href="mailto:smc@smc.fi">smc@smc.fi</a></td>
</tr>
<tr>
<td>France</td>
<td>+33 (0)164761000</td>
<td><a href="http://www.smc-france.fr">www.smc-france.fr</a></td>
<td><a href="mailto:info@smc-france.fr">info@smc-france.fr</a></td>
</tr>
<tr>
<td>Germany</td>
<td>+49 (0)61034020</td>
<td><a href="http://www.smc.de">www.smc.de</a></td>
<td><a href="mailto:info@smc.de">info@smc.de</a></td>
</tr>
<tr>
<td>Greece</td>
<td>+30 210 2717265</td>
<td><a href="http://www.smcHELLAS.gr">www.smcHELLAS.gr</a></td>
<td><a href="mailto:sales@smcHELLAS.gr">sales@smcHELLAS.gr</a></td>
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<td><a href="mailto:office@smc.hu">office@smc.hu</a></td>
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<tr>
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<td>+353 (0)14039000</td>
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<tr>
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<td><a href="mailto:info@smcromatik.com.tr">info@smcromatik.com.tr</a></td>
</tr>
<tr>
<td>UK</td>
<td>+44 (0)845 121 5122</td>
<td><a href="http://www.smpcneumatics.co.uk">www.smpcneumatics.co.uk</a></td>
<td><a href="mailto:sales@smcneumatics.co.uk">sales@smcneumatics.co.uk</a></td>
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