Description
On account of their high degree of IP protection and resistance to chemicals, BARTEC plug-and-socket devices for hazardous areas are particularly suitable for use in harsh atmospheres.

An integrated switch function enables them to switch overloads in accordance with IEC/EN 60947 Cat. AC22 or AC23. Silver-plated butting contacts allow a constant contact pressure with low transition resistance. Special codings are possible and can be produced specifically to order.

Plug/couplers
The modular design of the plug-and-socket system allows the supply of both plugs and couplers. They are supplied in an unmounted state.

Wall socket
BARTEC offers both a completely certified wall socket and a plug socket with 30° adaptor for flanging onto enclosures. The plug-and-socket devices from BARTEC are approved under the European Directives both for Zones 1 and 2 and for Zones 21 and 22.

Likewise for Class I Div. 2 Groups A, B, C, D and Class II Div. 2, Groups E, F, H in accordance with the American standards.

Socket-and-socket device type 07-810

Explosion protection

Ex protection type
Type 07-8101 (DXN1)
\[ II 2GD Ex de IIC T6 \]
\[ -40°C ≤ Ta ≤ +60°C \]
\[ T5 \]
\[ 90°C \]
\[ -40°C ≤ Ta ≤ +40°C \]
\[ T6 \]
\[ 70°C \]

Type 07-8102 (DXN3)
\[ II 2GD Ex de IIC T4 \]
\[ -40°C ≤ Ta ≤ +60°C \]
\[ T4 \]
\[ 98°C \]
\[ -40°C ≤ Ta ≤ +40°C \]
\[ T6 \]
\[ 78°C \]

Type 07-8103 (DXN6)
\[ II 2GD Ex de IIC T4 \]
\[ -40°C ≤ Ta ≤ +60°C \]
\[ T4 \]
\[ 107°C \]
\[ -40°C ≤ Ta ≤ +40°C \]
\[ T5 \]
\[ 87°C \]

Technical data

Type of protection
up to IP 66/IP 67 (IEC 60529)

Ambient temperature
Type 07-8101 (DXN1)
\[ -40°C to +60°C \]
\[ T5 \]
\[ -40°C to +40°C \]
\[ T6 \]

Type 07-8102 (DXN3)
\[ -40°C to +60°C \]
\[ T4 \]
\[ -40°C to +40°C \]
\[ T6 \]

Type 07-8103 (DXN6)
\[ -40°C to +60°C \]
\[ T4 \]
\[ -40°C to +40°C \]
\[ T5 \]

Rated current and rated voltage (EN 60309-1):
20A/550V  (DXN1)
32A/750V  (DXN3)
60/63A/750V (DXN6)

Connection possibilities
single-wire - plug, integration, device receptacle
Type 07-8101 (DXN1)  1 to 4mm²
Type 07-8102 (DXN3)  2.5 to 10mm²
Type 07-8103 (DXN6)  6 to 16mm²
fine-wire - socket
Type 07-8101 (DXN1)  2.5 to 6mm²
Type 07-8102 (DXN3)  2.5 to 16mm²
Type 07-8103 (DXN6)  6 to 25mm²

Enclosure material
Impact-resistant polyamide
(impact resistance IK08)
Operating Instructions

Plug-and Socket Device Type 07-810-....

**Operating Instructions**

1.) To be able to insert the plug, the plug bayonet and the corresponding cut-out in the socket must be aligned, one over another. Two red dots serve as a guide here. With the hook catch pointing upwards, the plug is inserted to some extent and then turned in a clockwise direction. The plug is now in a free position and the circuit is open.

2.) To close the circuit, the plug is pushed in further until it engages and is held in place by the hook.

3.) To disengage the plug, press the release hook. This interrupts the circuit.

4.) Turn the plug and take it out. The socket cover must be closed then.

**ATTENTION**

To enable the DXN to operate in the best possible way, make sure the cable does not obstruct the release of the plug or the coupling socket.
Safety Instructions

The plug-and-socket device may be used only within the specified temperature range. Incorrect installation without protection can cause malfunctioning and the loss of explosion protection.

The plug-and-socket device must be connected and assembled/disassembled only by qualified personnel who are authorised and trained to install electric components in hazardous areas.

Utilisation in areas other than those specified or the modification of the product by anyone other than the manufacturer will exempt BARTEC from liability for defects and any further liability.

The generally applicable statutory rules and other binding directives relating to workplace safety, accident prevention and environmental protection must be observed.

Marking

Particularly important points in these instructions are marked with a symbol.

⚠️ DANGER

Non-observance leads to death or serious physical injury. The necessary safety precautions must be taken.

⚠️ CAUTION

Warning of damage to property and financial and penal disadvantages (e.g. loss of guarantee rights, liability claims etc.)

⚠️ ATTENTION

Important instructions and information on preventing disadvantageous behaviour.

⚠️ NOTE

Important instructions and information on effective, economical and environmentally compatible handling.

Standards conformed to

EN 60079-0: 2006
EN 60079-1: 2007
EN 60079-7: 2007
EN 61241-0: 2006
EN 61241-1: 2004
EN 60309-1

Assembly and Commissioning

⚠️ ATTENTION

Only authorised and qualified personnel may do any of the assembly, disassembly, installation and commissioning work.

Commissioning

⚠️ ATTENTION

Before commissioning, check that:

- the device has been installed in compliance with regulations
- the device is not damaged
- the connection has been established properly
- the cable has been laid in an orderly fashion

⚠️ NOTE

The spare parts and/or individual parts as well as associated cable glands are specified in the data sheet.

Operation

⚠️ DANGER

The plug-and-socket device may be operated only within the technical limits that apply to it (see the Explosion protection and Technical data sections).

⚠️ CAUTION

Do not make any technical modifications to the plug-and-socket device.

Maintenance and fault clearance

⚠️ ATTENTION

The operator of the plug-and-socket device must keep it in an orderly condition, operate it correctly, monitor it and clean it regularly. The plug-and-socket device must be checked regularly for cracks and other damage.

⚠️ DANGER

The Ex regulations applicable to the plug-and-socket device require that each component replacement be carried out under the control of the manufacturer, BARTEC GmbH or MARECHAL ELECTRIC S.A.

Accessories, spare parts

see also the BARTEC catalogue.

Disposal

The components of the plug-and-socket device (plug, wall socket, adaptor, grip) contain metal and plastic parts.

For that reason, the statutory requirement for electronic scrap must be adhered to (e.g. disposal by an approved disposal company).

Service address

BARTEC GmbH
Max-Eyth-Straße 16
D-97980 Bad Mergentheim
Tel.: +49 7931 597-0
Fax: +49 7931 597-119
### Operating Instructions

**Plug-and-Socket Device** Type 07-810-....

<table>
<thead>
<tr>
<th>Bezeichnung</th>
<th>Kontakte</th>
<th>BARTEC Bestell-Nummer</th>
<th>Spannung</th>
<th>Typreihe</th>
<th>Prüfbescheinigung</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>20 A Steckvorrichtungen</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stecker</td>
<td>L + N + PE</td>
<td>07-8101-5110</td>
<td>20-24 V</td>
<td></td>
<td>DXN1</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8101-5120</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8101-5130</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8101-5140</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wanddose</td>
<td>L + N + PE</td>
<td>07-8101-1210</td>
<td>20-24 V</td>
<td></td>
<td>DXN1</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8101-1220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8101-1230</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8101-1240</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8101-3220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8101-3230</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8101-3240</td>
<td>380-415 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>32 A Steckvorrichtungen</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DXN3</td>
</tr>
<tr>
<td>Stecker</td>
<td>L + N + PE</td>
<td>07-8102-5110</td>
<td>20-24 V</td>
<td></td>
<td>LCIE 05 ATEX 6149</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8102-5120</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8102-5130</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8102-5140</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wanddose</td>
<td>L + N + PE</td>
<td>07-8102-1210</td>
<td>20-24 V</td>
<td></td>
<td>DXN3</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8102-1220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8102-1230</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8102-1240</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steckdose mit Adapter</td>
<td>L + N + PE</td>
<td>07-8101-3210</td>
<td>20-24 V</td>
<td></td>
<td>LCIE 05 ATEX 6149</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8101-3220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8101-3230</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8101-3240</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>60 A Steckvorrichtungen</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DXN6</td>
</tr>
<tr>
<td>Stecker</td>
<td>L + N + PE</td>
<td>07-8103-5110</td>
<td>20-24 V</td>
<td></td>
<td>LCIE 05 ATEX 6150</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8103-5120</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8103-5130</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8103-5140</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wanddose</td>
<td>L + N + PE</td>
<td>07-8103-1210</td>
<td>20-24 V</td>
<td></td>
<td>DXN6</td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8103-1220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8103-1230</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8103-1240</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steckdose mit Adapter</td>
<td>L + N + PE</td>
<td>07-8103-3210</td>
<td>20-24 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 + PE</td>
<td>07-8103-3220</td>
<td>220-250 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + PE</td>
<td>07-8103-3230</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 + N + PE</td>
<td>07-8103-3240</td>
<td>380-440 V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Weitere Spannungen sowie bis zu 24 Kontaktkonfigurationen sind verfügbar.
### CE – Déclaration de Conformité
EC – Declaration of Conformity

### MARECHAL ELECTRIC S.A.
5, avenue de Presles
F-94417 SAINT-MAURICE Cedex – France
Tel : +33 (0)1 45 11 60 00
Fax : +33 (0)1 45 11 60 60
E-mail : sales@marechal.fr

#### Prises de courant industrielles / Industrial plugs and socket-outlets

<table>
<thead>
<tr>
<th>Type</th>
<th>Intensité</th>
<th>Marquage</th>
<th>Et sont conformes aux normes suivantes :</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXN1</td>
<td>20 A</td>
<td>Ex de IIC tD A21 T5 T90°C T6 T70°C</td>
<td>EN 60309-1 (Norme produit / Product standard)</td>
</tr>
<tr>
<td>DXN3</td>
<td>32 A</td>
<td>Ex de IIC tD A21 T4 T98°C T6 T78°C</td>
<td>EN 60079-0 EN 60079-1 EN 60079-7 EN 61241-0 EN 61241-1</td>
</tr>
</tbody>
</table>


Année d’apposition de marquage CE :
- DXN1: 2000
- DXN3: 2000
- DXN6: 2002

avec les caractéristiques d’étanchéité suivantes / with the following watertightness characteristics : IP66/IP67

N° de Notification de l’Evaluation relatif à la Qualité : LCIE 00 ATEX Q 8001 selon l’Annexe IV réalisé par l’organisme notifié n° 0081 : LCIE – 33, avenue du Général Leclerc – 92260 Fontenay-Aux-Roses – France

Quality Assessment Notification Number: LCIE 00 ATEX Q 8001 according to Annex IV carried out by Notified Body N° 0081: LCIE – 33, avenue du Général Leclerc – 92260 Fontenay-Aux-Roses – France

Saint-Maurice, 17/07/2008

Manuel DA COSTA
Responsable ATEX / ATEX Manager