

Electrical features

- From **16 A to 63 Amps** -Voltage up to 750 Volts AC (16/20 A up to 550 V) and up to 250 V DC
- Integral switching device as defined in clause 2.8 of IEC/EN 60309-1 standard
- Equipped with silver-nickel butt-contacts for added reliability and lifetime
- Socket-outlet safety shutter provides **IP4X** protection with open lid
- Unique keying system allows discrimination between 24 different power supplies (voltage, frequency, AC and DC current)
- Versions with **2 auxiliaries** (DXN3:32 A/550 V; DXN6: 63 A/550 V)
- **Compatibility:** DXN plugs are compatible with the socket-outlets of the universal **DSN** range (except for versions with auxiliaries and DXN/DSN6).

Mechanical features

- **IP66** and **IP67** automatic watertightness as standard (resists high pressure washing)



Push the plug into the socket-outlet: a "click" indicates that connection has been established and that IP66/67 has been achieved.

- Casings made of polyamide (**IKo8** impact resistance)
- Ambient temperature (Ta): from **-40 °C** to **+60 °C** (for other temperatures please contact us)
- Spring-assisted terminals unaffected by vibrations and thermal cycling
- Self-opening lid; self-returning lid on request

Regulatory features

DXN decontactors can be used in zones 1 & 2 (*gas*) and zones 21 & 22 (*dust*).

They comply with:

- The **ATEX 94/9/CE** and **99/92/CE** directives
- The **EN 50014**, **EN 50018** (explosion proof safety 'd') and **EN 50019** (increased safety 'e') European harmonised standards, and the **EN 50281-1-1** (electrical equipment for use in flammable dust atmospheres) standard
- The **IEC 60079-0** (electrical equipment for use in flammable gas atmospheres – Section 0: General rules) and **IEC 60079-1** ('d' safety) international standards
- The **IEC 60309-1** International standard and **EN 60309-1** European standard (plugs and socket-outlets for industrial purposes)

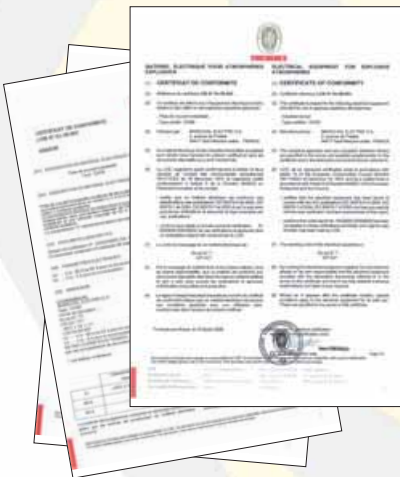
Also certified by **AS**, **CSA** and **VERITAS LCIE**.

Specification
IP 66/67 Plug and socket-outlet for explosive atmospheres (ATEX) with integral switching device, comply with BECMA international standard.



Technology that prevents accidents!

The DECONTACTOR DXN provides enhanced safety for its users. To release the plug, simply press the latch and pull the plug simultaneously (pictures 1 & 2), which breaks the circuit. Then, twist anticlockwise and withdraw the plug (picture 3). This operation is totally safe because the circuit is open. When the plug and socket-outlet are separated, active parts are protected against the ingress of finger or from wires exceeding 1 mm diameter, thanks to the socket-outlet safety shutter (IP4X protection with open lid).



Compliance with the ATEX directive

ATEX directive dated 23rd March 1994, 99/92/CE (0081) and IEC 60079.

	ATEX Certificate numbers	IEC Certificate numbers
DXN1	LCIE 99 ATEX 6027X	LCIE Ex 99.007 X
DXN3	LCIE 05 ATEX 6149	LCIE Ex 06.002
DXN6	LCIE 05 ATEX 6150	LCIE Ex 06.003

The DXN are **II 2 G/D Ex ed IIC T6** certified for use in zones 1 and 2 (gas) and zones 21 and 22 (dust).

On each DXN DECONTACTOR there is a marking whose precise meaning is specified below (example for a DXN1):

- II2** Our products are certified for use above-ground only. They are category '2', i.e. they can be installed in zone 1 gas (and therefore 2) and zone 21 dust (and therefore 22).
- G/D** Our products are intended to be installed in explosive gas ('G') or dust ('D') atmospheres.
- ed** The protection modes of our products are 'e' (increased safety: terminals, enclosures ...) and 'd' (explosion proof gaskets for arc chambers).
- IIC** Our products can be installed in all types of gas.

Ex II2 G/D EEX ed IIC
 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T70 °C
 LCIE 99 ATEX 6027 X

For an ambient temperature lower or equal to 40 °C, the surface temperature is lower than 70 °C and the temperature class is T6.

Name of laboratory, year of certification and ATEX certificate part number.

DXN

Quickly find the right items!

The range

Modular system

DXN deconnectors meet the modularity system described on the front cover flap. Before consulting the 'part number' pages, determine the parts required for the needed configuration.



Example: a **wall mounting socket-outlet** includes an active part, **the socket-outlet (S)** and an installation accessory,

the wall box (B). Each part has its own part number. Therefore, the order should have **two part numbers**.

DXN part number system

- **Standard** DXN part numbers are made up of 7 characters. All part numbers start with a **2**.
- The choice of an **option** or a **version with auxiliary contacts** results in adding a suffix (from 1 to 3 characters).

1 st character	2 nd character	3 rd character	4 th character	Characters from 5 to 7		
Range	Casing	Rated current	Usage	Supply voltage**	Frequency	Polarity
2 = DXN	5 = Black poly	1 = DXN1 (20 A)	4 = Socket-outlet	08A = 20-24 V	50 Hz	2P
		3 = DXN3 (32 A)	8 = Inlet	015 = 220-250 V	50 Hz	1P+N+E
		6 = DXN6 (63 A)		013 = 380-440 V	50 Hz	3P+E
				017 = 380-440 V	50 Hz	3P+N+E
			A = Installation accessory	753 = Handle		
				027 = Inclined sleeve		
				B58 = Wall box		

** 24 different power supplies (voltage, frequency) and 12 polarities are available.

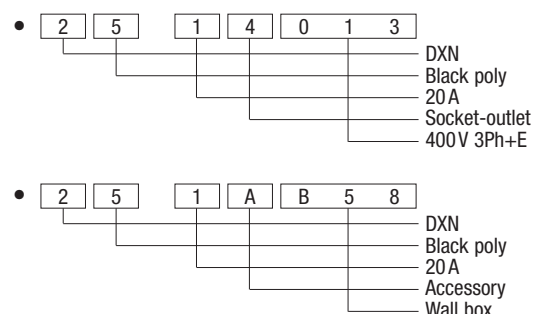
DXN part number

Check that the part number meets the need...

Example: the need is for a 20A, 400V, 3P+E black poly wall mounting socket.

- Order a 20A **socket-outlet (S)** and a **wall box (B)**.
- The DXN with a 20A rated current is **DXN1** (see pages 6 and 7).
- In the standard socket-outlet part number table, select the part number for a 400V, 3P+E socket-outlet: **25 14 013**
- In the standard wall box part number table, choose the accessory that suits you e.g. a 70° poly wall box with a M20 threaded entry and a cable gland: **25 1A B58**

Check of the two part numbers:



DXN₁

DECONTACTOR 20 A



Ex II2 G/D EEX ed IIC
 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T70 °C
 LCIE 99 ATEX 6027 X



S Socket-outlet

I Inlet



Main options



Padlocking shaft
(Padlock not supplied)

Accessories



IP67 Inlet cap

Main features:

- IP 66/67
- IK 08
- U_{max} AC 550V
- Rated currents (IEC / EN 60309-1) 20A / 550V
- Wiring (min - max) flexible 1 / 4 mm²
- Wiring (min - max) stranded 2,5 / 6 mm²

Voltage	Polarity	Material	Part #	Voltage	Polarity	Material	Art.-Nr.
20-24V	2P	Polyester	25 14 08A	20-24V	2P	Polyester	25 18 08A
220-250V	1P+N+E	Polyester	25 14 015	220-250V	1P+N+E	Polyester	25 18 015
380-415V	3P+E	Polyester	25 14 013	380-415V	3P+E	Polyester	25 18 013
380-415V	3P+N+E	Polyester	25 14 017	380-415V	3P+N+E	Polyester	25 18 017

** 24 different voltages and polarities available.

Dimensions see page 14 - 15

Socket-outlet options

Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 3 mm Ø	Socket # + 844

Inlet accessories

IP 67 cap	25 1A 126
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If you want to equip a socket-outlet with two or more options:
 call us at +49 (0) 7852 / 91 96-0

INSTALLATION ACCESSORIES

DXN₁

B Box



Wall Box
poly 70°

Entry		Ø
M20	25 1A B58	9-14 mm
M25	25 1A B58 25P	13-19 mm
M32	25 1A B58 32P	18-25 mm

Cable gland 'e' included

Sl Sleeve



Inclined
poly 70°

25 1A 757

H Handle



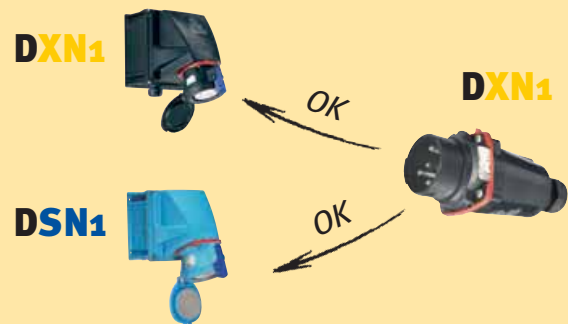
Straight poly
with poly cable gland

Entry		Ø
M20	25 1A 753	9-14 mm
M25	25 1A 253 25P	13-19 mm
M32	25 1A 253 32P	18-25 mm



ZOOM DXN₁ / DSN₁ compatibility

The DXN "ed" plugs can be connected both to DXN₁ "ed" socket-outlets / coupler sockets and to DSN₁ industrial socket-outlets / coupler sockets. Thus you can move mobile "Ex" devices equipped with a DXN₁ plug in and out of your "Ex" zones.



On the other hand, it is not possible to connect DSN₁ industrial plugs to DXN₁ socket-outlets / coupler sockets.



The complete range can be found in our main catalogue!

DXN3 DECONTACTOR

32 A



Ex II2 G/D EEX ed IIC
 -40 °C ≤ Ta ≤ +60 °C T4 T100 °C
 -40 °C ≤ Ta ≤ +40 °C T6 T80 °C
 LCIE 05 ATEX 6149



S Socket-outlet

I Inlet



Version with auxiliary contacts

Standard 3P+N+E version

Main options



Padlocking shaft
(Padlock not supplied)

Main features:

- IP 66/67
- IK 08
- Umax 750 V AC (with 2 auxiliaries: 550 V) - 250 V DC
- Wiring (min - max) flexible 2,5 / 10 mm²
- Wiring (min - max) stranded 2,5 / 16 mm²
- Rated currents (IEC / EN 60309-1) 32 A / 750 V (with 2 auxiliaries: 550 V)

Accessories



IP67 Inlet cap

Voltage	Polarity	Material	Part #	Voltage	Polarity	Material	Part #
20-24 V	2P	Polyester	25 34 08A	20-24 V	2P	Polyester	25 38 08A
220-250 V	1P+N+E	Polyester	25 34 015	220-250 V	1P+N+E	Polyester	25 38 015
380-440 V	3P+E	Polyester	25 34 013	380-440 V	3P+E	Polyester	25 38 013
380-440 V	3P+N+E	Polyester	25 34 017	380-440 V	3P+N+E	Polyester	25 38 017

** 24 different voltages and polarities available.

Dimensions see page 14 - 15

Socket-outlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Socket # + 972

If you want to equip a socket-outlet with two or more options:
call us at +49 (0) 78 52 / 91 96-0

Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Socket # + 972

Socket-outlet options

Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 3 mm Ø	Socket # + 844

If you want to equip a socket-outlet with two or more options:
call us at +49 (0) 78 52 / 91 96-0

Inlet accessories

IP 67 cap	25 3A 126
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INSTALLATION ACCESSORIES

DXN3

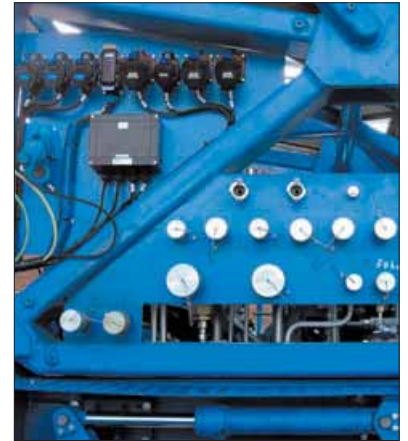
B Box



Wall Box
poly 70°

Entry		Ø
M20	25 3A B58 20P	9-14 mm
M25	25 3A B58	13-19 mm
M32	25 3A B58 32P	18-25 mm

Cable gland 'e' included



Sl Sleeve



Inclined
poly 70°

25 3A 757

H Handle

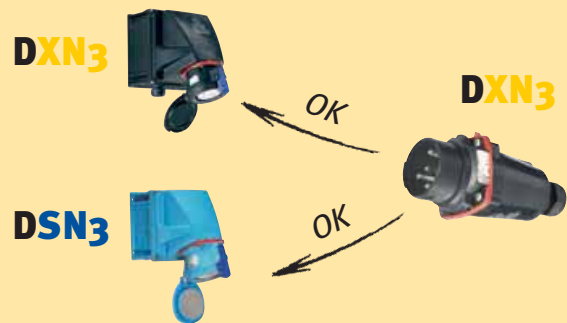


Straight poly
with poly cable gland

Entry		Ø
M20	25 3A 753	9-14 mm
M25	25 3A 783	13-19 mm
M32	25 3A 253 32P	18-25 mm
M40	25 3A 253 40P	24-32 mm

ZOOM DXN3 / DSN3 compatibility

The DXN3 "ed" plugs can be connected both to DXN3 "ed" socket-outlets / coupler sockets and to DSN3 industrial socket-outlets / coupler sockets. Thus you can move mobile "Ex" devices equipped with a DXN3 plug in and out of your "Ex" zones.



On the other hand, it is not possible to connect DSN3 industrial plugs to DXN3 socket-outlets / coupler sockets.



The complete range can be found in our main catalogue!

DXN6 DECONTACTOR

63 A



Ex II2 G/D EEX ed IIC
 -40 °C ≤ Ta ≤ +60 °C T4 T110 °C
 -40 °C ≤ Ta ≤ +40 °C T5 T90 °C
 LCIE 05 ATEX 6150



S Socket-outlet

I Inlet

Version with auxiliary contacts



Standard 3P+N+E version



Main options



Padlocking shaft
(Padlock not supplied)

Accessories



IP67 Inlet cap

Main features:

- IP 66/67
- IK 08
- Umax 750 V AC (with 2 auxiliaries: 550 V) - 250 V DC
- Rated currents (IEC / EN 60309-1) 60 - 63 A / 750 V (with 2 auxiliaries: 550 V)
- Wiring (min - max) flexible 6 / 16 mm²
- Wiring (min - max) stranded 6 / 25 mm²

Voltage	Polarity	Material	Part #	Voltage	Polarity	Material	Part #
20-24 V	2P	Polyester	25 64 08A	20-24 V	2P	Polyester	25 68 08A
220-250 V	1P+N+E	Polyester	25 64 015	220-250 V	1P+N+E	Polyester	25 68 015
380-440 V	3P+E	Polyester	25 64 013	380-440 V	3P+E	Polyester	25 68 013
380-440 V	3P+N+E	Polyester	25 64 017	380-440 V	3P+N+E	Polyester	25 68 017

**** 24 different voltages and polarities available.**

Dimensions see page 14 - 15

Socket-outlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Socket # + 972

If you want to equip a socket-outlet with two or more options:
call us at +49 (0) 78 52 / 91 96-0

Socket-outlet options

Self-returning lid	Socket # + R
180°-opening lid	Socket # + 10
180°-opening and self-returning lid	Socket # + 18
Padlocking shaft up to 3 padlocks 3 mm Ø	Socket # + 844

If you want to equip a socket-outlet with two or more options:
call us at +49 (0) 78 52 / 91 96-0

Inlet with auxiliary contacts

With 2 auxiliary contacts (5 A) Socket # + 972

Inlet accessories

IP 67 cap	25 6A 126
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INSTALLATION ACCESSORIES

DXN6

B Box



Wall Box
poly 70°

Entry		Ø
M25	25 6A B58 25P	13-19 mm
M32	25 6A B58	18-25 mm
M40	25 6A B58 40P	24-32 mm

Cable gland 'e' included



Sl Sleeve



Inclined
poly 70°

25 6A 757

H Handle



Straight poly
with poly cable gland

Entry		Ø
M20	25 6A 253 20P	9-14 mm
M25	25 6A 753	13-19 mm
M32	25 6A 253 32P	18-25 mm
M40	25 6A 253 40P	24-32 mm

ZOOM B2X ATEX distribution boxes



This product consists of a flat lid and a box, both made of polyamide for a better temperature resistance. Equipped with increased safety 'e' terminal blocks and cable glands, the whole set complies with the ATEX 94/9/CE directive.

Ex II2 G/D EEX e II
-40 °C ≤ Ta ≤ +60 °C T6 T85 °C
LCIE 05 ATEX 6128

Code compliance

- EN 50014, EN 50019 for zones 1 and 2
- EN 50281-1-1 and CEI 61241-1-1 for dust in zone 21 and 22

Wiring

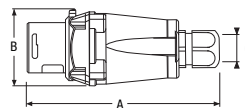
Three kinds of increased safety 'e' terminal blocks are available:

- S1 : 3 x 4 mm² max. per terminal block (I = 20 A)
- S2 : 3 x 10 mm² max. per terminal block (I = 40 A)
- S3 : 3 x 25 mm² max. per terminal block (I = 70 A)

DXN Dimensions

Socket-outlet + plug

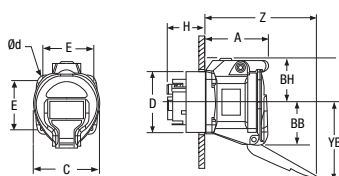
Plug



	A	B	Ø
DXN1	127	51	-
DXN3	128	68	-
DXN6	149	83	-

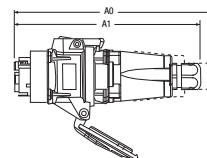
Socket-outlet

YB: 180° OPENING LID



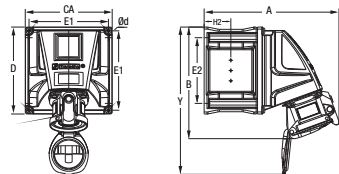
	A	BB	BH	C	D	E	H	YB	YBb	Z	Zb	Ød
DXN1	53	40	38	57	51	42	25	70	-	98	-	4,5
DXN3	66	53	50	73	58	48	15	98	-	114	-	4,5
DXN6	79	59	56	82	68	55	18	118	148	121	24	5

Plug connected (A1)/ disconnected (A0) in a socket-outlet



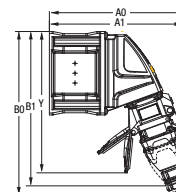
	A1	A0
DXN1	153	166
DXN3	135	169
DXN6	171	201

70° wall mounting socket



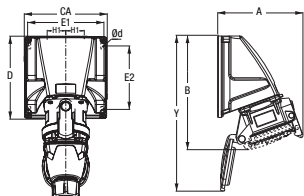
	A	B	CA	CAb	CP	D	E1	E1b	E2	H	H1	Y	Yb	Z	Ød
DXN1	191	163	129	-	57	129	119	-	99	0	29	218	-	97	4,5
DXN3	204	174	129	-	73	129	119	-	99	0	29	244	-	73	4,5
DXN6	243	231	173	-	82	173	158	-	139	0	29	294	213	86	6,5

Plug connected (A1)/ disconnected (A0) in a 70° wall mounting socket



	A0	A1	B1	B0	Y	Yb
DXN1	212	217	255	267	218	-
DXN3	216	221	257	273	244	-
DXN6	251	261	311	339	294	213

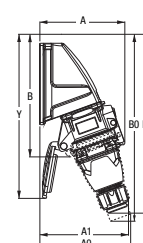
70° inclined socket



	A	B	CA	CAb	CP	D	D1	D2	E1	E1b	E2	Y	Yb	Z	Ød
DXN1	122	163	129	68	57	129	95	115	119	-	99	218	-	36	4,5
DXN3	135	174	129	0	0	129	95	115	119	-	99	244	-	12	5,5
DXN6	164	231	173	0	0	173	133	152	158	-	139	294	213	14	6,5

Plug connected (A1)/ disconnected (A0) in a 70° inclined socket

YB: 180° OPENING LID

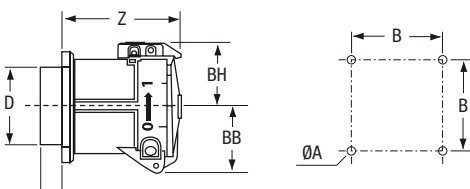


	A1	A0	B1	B0	Y	Yb
DXN1	143	148	255	267	218	-
DXN3	146	152	257	273	244	-
DXN6	172	182	311	339	294	213

DX Dimensions

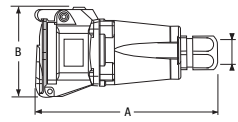
Socket-outlet

Socket-outlet



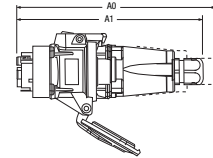
	Z	D	H	BH	BB	B	ØA
DX1 / DX3	95	104	55	66	85	92	6,7
DX6 / DX9 / DX2	173	148	90	92	110	121	9

Coupler socket



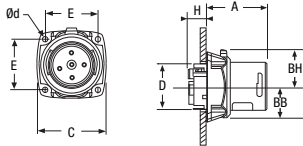
	A	B	Ø
DXN1	129	78	-
DXN3	144	103	-
DXN6	172	115	-

Coupler socket connected (A₁)/disconnected (A₀) in an inlet



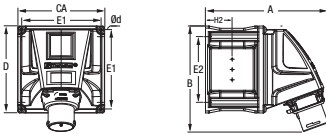
	A ₁	A ₀
DXN1	153	166
DXN3	152	169
DXN6	171	201

Inlet



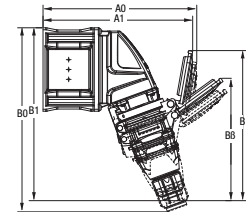
	A	BB	BH	C	D	E	H	Ød
DXN1	51	24	27	57	49	42	14	4,5
DXN3	50	32	36	68	58	48	13	4,5
DXN6	56	39	44	78	68	55	15	5

70° wall mounting appliance inlet



	A	B	CA	CAb	CP	D	E1	E1b	E2	H	H1	Ød
DXN1	172	156	129	-	57	129	119	-	99	34	29	4,5
DXN3	176	159	129	-	67	129	119	-	99	34	29	4,5
DXN6	211	203	173	-	78	173	158	-	139	34	29	6,5

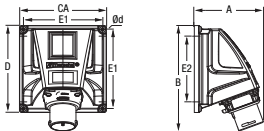
Coupler socket connected (A₁)/disconnected (A₀) in a 70° wall mounting appliance inlet



BB: Deckel 180° öffnend

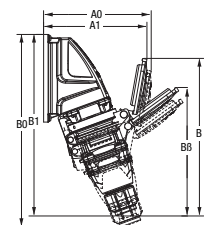
	A ₁	A ₀	B	B1	B0	BB
DXN1	212	217	195	255	267	-
DXN3	216	221	224	257	273	-
DXN6	251	261	252	311	341	172

70° inclined appliance inlet



	A	B	CA	CAb	CP	D	D1	D2	E1	E1b	E2	Ød
DXN1	103	156	129	0	57	129	95	115	119	-	99	4
DXN3	107	159	129	0	67	129	95	115	119	-	99	4
DXN6	103	203	173	0	78	173	133	152	158	-	139	7

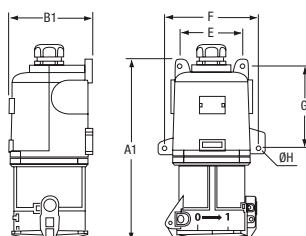
Coupler socket connected (A₁)/disconnected (A₀) in a 70° inclined appliance inlet



BB: 180° OPENING LID

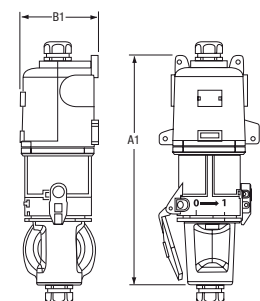
	A ₁	A ₀	B	B1	B0	BB
DXN1	143	148	195	255	267	-
DXN3	146	152	224	257	273	-
DXN6	251	261	252	311	341	172

90° wall mounting socket



	A1	B1	E	F	G	ØA
DX1 / DX3	240	125	90	145	119	9
DX6 / DX9 / DX2	378	175	130	195	174	9

Coupler socket connected (A₁)/disconnected (A₀) in a 90° wall mounting appliance inlet



	A ₁	B1
DX1 / DX3	317	125
DX6 / DX9 / DX2	513	175

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