

EX - TERMINAL ENCLOSURES

Stainless Steel Version for Zone 1, 2, 21 and 22

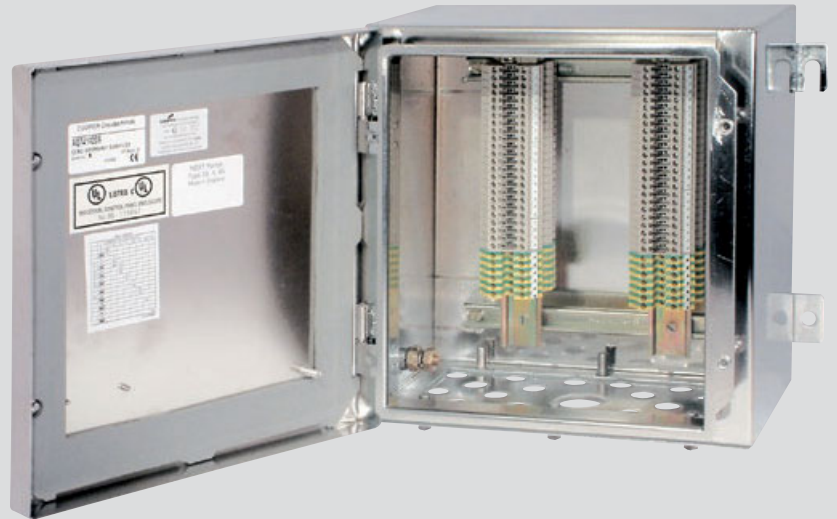
The N-TB enclosure has been specifically designed for installation in locations with aggressively hostile environmental conditions. These include such locations as petrochemical hazardous areas, pharmaceutical, food process and utility applications. Manufactured from high quality stainless steel that is electro-polished for a highly corrosion resistant "Chromium enriched" surface. This multi certified enclosure is available in different sizes and depths, each with the facility for many configuration possibilities for a multitude of applications.

Using the highest quality materials, unique design benefits and precision manufacturing the N-TB range is the benchmark in heavy-duty gauge enclosures of its class.

An integral drainage channel prevents liquids or other solids contaminants from running in or falling into the enclosure when the door is opened, and to minimise gasket path contamination. The high integrity „one piece“ sealing gasket for superior ingress protection (IP) of 66 and excellent recovery and re-sealing properties for continuous environmental protection.

There is an option for the mounting of up to four 3 mm thick gland-plates on each side in 4 possible combinations of 1, 2, 3 or 4 gland-plates. All units are sealed to IP66 by a high integrity Silicon gasket and secured by stainless steel bolts into blind inserts.

- **316L Stainless Steel (1.4404 to EN 10088)**
Superior "corrosion resistant" electro chemically polished
- high integrity „one piece“ silicon gasket
- Detachable hinged door, stainless steel hinges with captive stainless steel hex screws
- 4 x external welded lugs,
11 mm Ø holes / slots
- Optional Gland Plate / Entries 3 mm thick
- Extended ambient temperatures
-40 °C to + 55 °C as option
- Certification TR-CU, AEx, cULus and Germanischer Lloyd on request





Technical data

Ex-e terminal enclosures N-TB	
Marking accd. to 94/9/EC	⊕ II 2 G Ex e IIC Gb / ⊕ II 2 D Ex tb IIIC Db
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	BVS 13 ATEX E 014U
Application temperature	-40 °C to +55 °C ¹⁾
IECEX Certificate of Conformity	IECEX BVS 13.0026U
Marking accd. to IECEx	Ex e II Gb Ex tb IIIC Db
Rated voltage	up to 1100 V ¹⁾
Rated current	up to 500 A ¹⁾
Connecting terminals	up to 240 mm ² ¹⁾
Protection class	I
Degree of protection accd. to EN 60529	IP66
Cable glands/gland plates/enclosure drilling	up to 4 side optional gland plate (3 mm) combination with entries to meet requirements
Type of mounting	4 x 3 mm welded lugs with Ø 11 mm holes/slots horizontal
Enclosure material	Stainless steel 316 L electro chemically polished or sheet steel polyester powder coated (RAL 7032)
Material thickness	1.5 mm, 2 mm (- 62/45/20 and over)
Components mounting	4 x stand of pillars Ø 9 mm, 25 mm height, thread M6 x 10, for rail or mounting plate
Enclosure earth	M10 external/internal stainless steel earth stud assembly M6 internal stud on lid & painted gland plates
Gasket material	Silicone gasket

¹⁾ depending on type of terminal and Ex-components used

Additional Approvals:
 cULUs Type 3S, 4, 4 x approval suitable for
 Class I, Div 2 applications, Class I Zone 1, AExe II T6 (limited range available),
 TR-CU, Germanischer Lloyd

Dimension drawing



Dimensions in mm

Ex-e terminal enclosures



N-TB

Ordering details N-TB up to 2 x 51 terminals

N-TB	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ B _{vertical} x B _{horizontal}	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing		Rail length		Row orientation vertical (thickness in mm)			
Type				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
N-TB 1	229x152x130	152x208 ³⁾	3.25	129	52	149	72	1x21	1x17	1x13	1x10
N-TB 2	260x260x160	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
N-TB 3	260x260x205	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
N-TB 4	306x306x160	203x361 ³⁾	7.00	206	260	226	226	2x36	2x30	2x23	2x18
N-TB 5	306x306x205	203x361 ³⁾	7.00	206	206	226	226	2x36	2x30	2x23	2x18
N-TB 6	380x260x205	250x316	7.00	280	180	300	160	2x51	2x43	1x32	1x25
N-TB 7	458x382x160	305x437 ³⁾	9.75	358	282	378	302	2x67	2x56	2x42	2x33

N-TB	Available glanding area			Max. entry guide (metric)							Order No. ⁴⁾
	Top & bottom	left	right	Top & bottom / left / right							
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
N-TB 1	58x108	58x108	58x108	6/6/6	3/3/3	2/2/2	1/1/1	-	-	-	NXTS12215130
N-TB 2	214x 80	114x 80	114x 80	20/9/9	10/6/6	6/3/2	3/2/3	3/1/1	2/1/1	-	NXTS12626160
N-TB 3	214x124	114x124	114x124	28/18/18	15/9/9	12/5/5	6/4/4	5/2/2	2/1/1	2/1/1	NXTS12626200
N-TB 4	261x 80	214x 80	261x 80	26/20/26	14/10/14	8/6/8	4/3/4	3/3/3	3/2/3	-	NXTS13030160
N-TB 5	261x124	214x124	261x124	34/28/34	20/15/20	15/12/15	8/6/8	6/5/6	3/2/3	2/2/2	NXTS13030200
N-TB 6	214x124	214x124	214x124	28/28/28	15/15/15	12/12/12	6/6/6	5/5/5	2/2/2	2/2/2	NXTS13826200
N-TB 7	337x 80	337x 80	337x 80	29/29/29	18/18/18	10/10/10	6/6/6	5/5/5	4/4/4	-	NXTS14538160

Options				
with 1 gland plate	NXT S1 XXYZZ 1		with 2 gland plate	NXT S1 XXYZZ 2
with 3 gland plate	NXT S1 XXYZZ 3		with 4 gland plate	NXT S1 XXYZZ 4
			Permanent Padlock HASP Facility (Factory Fitted ONLY)	NXT NN XXYZZ0-HASP

Type	Order No.
Example	
N-TB 4 with 3 gland plates, painted and padlock HASP facility	NXTS13030163-HASP

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

2. Dimension drawing see page 2.2.41

3. $\frac{123}{3}$ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for ordering key



N-TB

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Ordering details N-TB up to 6 x 171 terminals

N-TB	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ B _{vertical} x B _{horizontal}	Weight in kg (empty enclosure)	Terminal rail				Terminal content			
				Rail fixing		Rail length		Row orientation vertical (thickness in mm)			
Size				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
N-TB 8	380x380x230	250x435	8.10	280	280	300	300	2x 51	2x 43	2x32	2x25
N-TB 9	458x382x205	305x437 ³⁾	9.75	358	282	378	302	2x 67	2x 56	2x42	2x33
N-TB 10	480x480x205	327x535 ³⁾	10.40	380	380	400	400	3x 71	3x 59	3x44	3x35
N-TB 11	620x450x205	450x506	17.00	520	350	540	370	4x 99	3x 83	3x62	3x49
N-TB 12	762x508x205	508x564 ³⁾	23.50	662	408	682	428	3x128	3x106	3x80	3x64
N-TB 13	740x550x205	540x606	30.40	640	450	660	470	5x124	4x103	4x77	4x61
N-TB 14	860x640x205	570x696	29.00	760	540	780	560	6x147	5x123	5x 92	4x73
N-TB 15	980x740x205	700x796	38.00	880	640	900	660	6x171	6x143	5x107	5x85

N-TB	Available glanding area			Max. entry guide (metric)						Order No. ⁴⁾	
	Top & bottom	left	right	Top & bottom / left / right							
Type	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
N-TB 8	324x150	335x150	335x150	35/35/35	23/23/23	15/15/15	9/9/9	7/7/7	5/5/5	2/2/2	NXTS13838230
N-TB 9	337x124	337x124	337x124	46/46/46	26/26/26	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	NXTS14538200
N-TB 10	404x124	337x124	404x124	53/46/53	30/26/30	24/21/24	14/11/14	11/9/11	5/4/5	4/3/4	NXTS14848200
N-TB 11	404x124	404x124	404x124	53/53/53	30/30/30	24/24/24	14/14/14	11/11/11	5/5/5	4/4/4	NXTS16245200
N-TB 12	404x124	594x124	594x124	53/82/82	30/47/47	24/39/39	14/20/20	11/17/17	5/7/7	4/6/6	NXTS17650200
N-TB 13	504x124	504x124	504x124	60/60/60	39/39/39	30/30/30	18/18/18	13/13/13	6/6/6	5/5/5	NXTS17455200
N-TB 14	594x124	2x (304x124)	2x (304x124)	82/80/80	47/48/48	39/36/36	20/20/20	17/14/14	7/8/8	6/6/6	NXTS18664200
N-TB 15	2x (304x124)	2x (404x124)	2x (404x124)	80/106/106	48/60/60	36/48/48	20/28/28	14/22/22	8/10/10	6/8/8	NXTS19874200

Options	
with 1 gland plate	NXT S1 XXYYZZ 1
with 3 gland plate	NXT S1 XXYYZZ 3
with 2 gland plate	NXT S1 XXYYZZ 2
with 4 gland plate	NXT S1 XXYYZZ 4
Permanent Padlock HASP Facility (Factory Fitted ONLY)	NXT NN XXYYZZ0-HASP

Type	Order No.
Example	
N-TB 11 with 3 gland plate, 316L SS and Padlock HASP Facility	NXTS162445203-HASP

- Note:** 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
 2. Dimension drawing see page 2.2.41
 3. ³⁾ Subtract 30 mm when no side gland plates
 4. Refer to „OPTIONS“ for ordering key