

# ADALET

A SCOTT FETZER COMPANY

## IECEX

KOSHA

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ATEX

FM

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UL

CSA/cUL



# HAZARDOUS LOCATION PROTECTION PRODUCTS

MEETING YOUR GLOBAL APPROVAL REQUIREMENTS



**ADALET**, a Scott Fetzer Company, is a leading manufacturer of explosionproof enclosures and systems, industrial sheet metal and non-metallic enclosures, and related material. For more than 85 years, Adalet has offered global approvals and custom modifications and holds certifications under ISO-9001 International Standards for Quality Measurement. Adalet markets a broad line of industrial and explosionproof enclosure systems ranging from junction boxes, control stations, instrument and meter housings, increased safety terminal and control enclosures, panelboards, and motor starters to mining couplers, pilot devices, cable fittings and other hazardous location enclosure accessories.







## EXPLOSIONPROOF + FLAMEPROOF

Adalet carries the broadest line of explosionproof / flameproof enclosures for use in hazardous locations throughout the world. Adalet enclosures are used in the installation of electrical / electronic components for control, measurement, or monitoring applications in hazardous environments. Our explosionproof / flameproof enclosures can be modified for the installation of a variety of options such as operating devices, viewing windows, and internal / auxiliary devices permitting the development of fully customized enclosure systems. Providing enclosures and systems which meet the NEC, CEC, ATEX, and IEC standards, Adalet's range of globally approved, flameproof enclosures are designed to provide solutions to your worldwide hazardous location applications.



## EMPTY FLAMEPROOF CONTROL ENCLOSURES XCEX SERIES



Adalet's XCEX series flameproof enclosures are designed to house electrical/electronic components for control, measurement, and monitoring in hazardous locations. XCEX enclosures can be modified to incorporate a variety of modification options including drilled & tapped entries, window assemblies, operating devices, fittings and accessories.

### STANDARD FEATURES

- 80 Standard sizes available
- Corrosion resistant, copper free aluminum
- Type 4 watertight gasket
- High-strength metric steel cover bolts (zinc-plated)
- Pre-drilled hinge kit holes (hinge optional)
- Pre-drilled mounting panel holes (mounting panel optional)
- Internal / external ground screws
- Cast-on mounting lugs
- Tumbleblast, natural aluminum finish

### DESIGN OPTIONS

- XCESX stainless steel version available (limited size offering, consult factory)
- Stainless steel metric cover bolts
- Aluminum hinge kits with stainless steel hardware
- Mounting panels - Galvanized steel, aluminum, or phenolic
- Operators and auxiliary devices
- Window assemblies (round or square / rectangular)
- Custom machining - Milling, counter-boring, spot-facing, logos, paint/coating

### CERTIFICATIONS

- Class I, Division 1, Group BCD
- Class II, Division 1, Group EFG
- Class III
- Type 4, 4X, 7, 9
- Epsilon 07 ATEX 2251U
  - Ex d IIB+H2
  - Ex tD A21 IP66
- DEMKO 01 ATEX 0129472U
  - Ex d IIB
  - Ex tD A21 IP66
- IECEx UL 10.0046U
  - Ex d IIB
  - Ex tD A21 IP66
- Class I, Zone 1 Exd IIB



## POPULATED FLAMEPROOF CONTROL ENCLOSURES XCPX SERIES



Adalet's XCPX series ATEX certified control panels are designed to provide a complete ATEX Equipment Certificate to final assemblies direct from Adalet without additional third party testing and approvals. Utilizing an ATEX certified XCEX flameproof enclosure, Adalet can provide a turnkey solution for engineering and panel assembly using CE marked devices to provide a complete ATEX control panel.

### STANDARD FEATURES

- Complete engineering and specification review
- ATEX inspection and hydro test for gas group IIB+H2
- Type 4 watertight gasket
- Assembly layout review
- Component assembly and wiring services
- High strength metric steel cover bolts (zinc plated)
- Pre-drilled hinge kit holes (hinge optional)
- Pre-drilled mounting panel holes (mounting panel optional)
- Internal / external ground screws
- Cast-on mounting lugs
- Tumbblast, natural aluminum finish

### DESIGN OPTIONS

- Stainless steel metric cover bolts
- Aluminum hinge kits with stainless steel hardware
- Mounting panels – Galvanized steel, aluminum, or phenolic
- Operators and auxiliary devices
- Window assemblies (round or square / rectangular)
- Custom machining – Milling, counter-boring, spot facing, logos, painting/coating

### CERTIFICATIONS

- Class I, Division I, Group BCD
- Class II, Division I, Group EFG
- Class III
- Type 4, 4X, 7, 9
- Epsilon 07 ATEX 2196
  - Exd IIB+H2 T6(T5: Ta≤+60C)

## FLAMEPROOF HIGH VOLTAGE ENCLOSURES XHVX SERIES



Adalet XHVX series flameproof high voltage junction boxes are available in 26 sizes up to 8kV and 1000 amps. Utilizing Adalet's XCEX ATEX certified flameproof enclosures, the XHVX high voltage enclosures include a set of three porcelain insulators for high voltage applications.

### STANDARD FEATURES

- 16 (one in/one out) and 10 (two in/two out) sizes available
- Set of three porcelain insulators
- Steel mounting panel assembly
- Type 4 watertight gasket
- High strength metric steel cover bolts (zinc plated)
- Pre-drilled hinge kit holes (hinge optional)
- Pre-drilled mounting panel holes (mounting panel optional)
- Internal / external ground screws
- Cast-on mounting lugs
- Tumbblast, natural aluminum finish

### DESIGN OPTIONS

- Stainless steel metric cover bolts
- Aluminum hinge kits with stainless steel hardware
- Custom machining – Milling, counter-boring, spot facing, logos, paint/coatings

### CERTIFICATIONS

- Class I, Division I, Group BCD
- Class II, Division I, Group EFG
- Class III
- Type 4, 4X, 7, 9
- DEMKO 01 ATEX 0128064
  - Exd IIB: T6 or T5: -20°C ≤Ta≤+55°C
  - Ex tD A21 IP66 T100°C
- IECEx UL 09.0031X
  - Exd IIB: T6 or T5: -20°C ≤Ta≤+55°C
  - Ex tD A21 IP66 T100°C
- Class I, Zone I Exd IIB



## INTERNAL FLANGE FLAMEPROOF ENCLOSURES XIFCX/XIFX/XIFCX-T SERIES



Adalet's XIF\_X series enclosures are used in the installation of electrical / electronic components for control, measurement, and monitoring in hazardous locations. The internal flanged enclosures can be modified for installation of flameproof operating devices such as pushbuttons and pilot lights or terminal blocks and are available in various sizes and vertical operator hole patterns.

### STANDARD FEATURES

- 22 standard sizes
- Pre-drilled to accept mounting panel (mounting panel optional)
- High strength metric steel cover bolts (zinc plated)
- Internal / external ground screws
- Cast-on mounting lugs
- Tumbleblast, natural aluminum finish

### DESIGN OPTIONS

- Stainless steel metric cover bolts
- Installation of terminal blocks or cover operators
- Custom machining – Milling, counter-boring, spot facing, logos, paint/coatings

### CERTIFICATIONS

- Class I, Division I, Group CD
- Class II, Division I, Group EFG
- Class III
- Type 7, 9
- DEMKO 09 ATEX 0816570X (populated)
  - Exd IIB T6 or T5:  $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
- IECEX UL 08.0023X (populated)
  - Ex IIB T6 or T5:  $-20^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$
- IP40
- Class I, Zone I, Ex IIB

## FLAMEPROOF INSTRUMENT ENCLOSURES XIH\_X / XDH\_X SERIES



The Adalet XIH\_X and XDH\_X series flameproof instrument enclosures are designed to provide ample clearance to accommodate a wide variety of instrumentation, measurement, and control devices which will be located in hazardous areas or areas which require rugged protection. The instrument enclosures are designed with a glass viewing window or solid cover options with varying cover depths and diameters. Having the most sizes in the industry with the most flexible options and approvals, Adalet flameproof instrument housings provide the best fit at the best price.

### STANDARD FEATURES

- 1/2" or 3/4" feed through hubs
- 7/16" thick base for blind tapped instrument mounting holes
- Glass or solid covers with varying depths / diameters
- Internal / external ground screws
- Front boss for bracket mounting or use as additional conduit entry
- Corrosion resistant safety blue power coating
- Stainless steel hardware

### DESIGN OPTIONS

- XIHNS Stainless Steel version available (consult factory)
- Mounting lugs with 5/16" holes
- 1/2" NPT or 3/4" NPT opening in backwall for conduit, sensor, or probe
- Custom machining – Conduit drilling, milling, counter-boring, spot facing, logos, painting/coatings

### CERTIFICATIONS

- Class I, Division I, Group BCD
- Class II, Division I, Group EFG
- Class III
- Type 4, 4X, 7, 9
- DEMKO 07 ATEX 0622292U
  - Exd IIB+H2 (XDH models)
  - Exd IIC (XIH models)
  - Ex tD A21 IP66
- IECEX UL 08.0005U
  - Exd IIB+H2 (XDH models)
  - Exd IIC (XIH models)
  - Ex tD A21 IP66
- Class I, Zone I Exd IIB+H2



## SCREW COVER FLAMEPROOF METER HOUSINGS XJ\_X SERIES



Adalet's Xj\_X series flameproof screw cover junction boxes and meter housings are designed for installation in electrical / electronic applications in hazardous locations. Used for wiring of pull boxes, splices, taps, and terminal strips; or as a housing for apparatus, instruments, meters, and other electrical equipment.

### STANDARD FEATURES

- Solid, or glass style threaded screw covers
- Pre-drilled to accept mounting panel (mounting panel optional)
- Integrally cast in mounting flanges or adapter plates (where specified)
- Internal / external ground screws
- Cast-on mounting lugs
- Tumbblast, natural aluminum finish

### DESIGN OPTIONS

- Installation of mounting posts, rings, or studs
- Custom machining — Conduit drilling, milling, counter-boring, spot facing, logos, paint/coatings

### CERTIFICATIONS

- Class I, Division I, Group BCD
- Class II, Division I, Group EFG
- Class III
- Type 4, 7, 9
- DEMKO 03 ATEX 0303070U
  - Exd IIB+H2
  - Ex tD A21 IP66
- Class I, Zone I Exd IIB+H2

## FLAMEPROOF OPERATORS AND XLX ATEX PILOT LIGHTS



Adalet's operating devices are all approved for use in the XCEX series ATEX / IECEx flameproof enclosures. The Adalet pushbutton, selector switches, and potentiometers are all approved for use in Adalet XCEX enclosures. The Adalet XLX series ATEX LED pilot light is designed specifically for ATEX / IECEx flameproof applications and is the only approved pilot light suitable for use in Adalet ATEX enclosures.

### STANDARD FEATURES

#### XLX ATEX PILOT LIGHTS

- Long barrel or short barrel version for varying enclosure sizes
- LED colors range from amber, green, red, and white
- 120V or 240V standard versions (consult factory for other voltages)
- Low maintenance: 10 year / 100,000 service life under normal operating conditions
- Efficient: Four times more efficient than standard incandescent blubs
- LED bulb located inside enclosure (not under lens cap) for worry-free operation

### DESIGN OPTIONS

#### FLAMEPROOF AUXILIARY DEVICES

- Class I, Division I, Group BCD
- Class II, Division I, Group EFG
- Class III
- Type 4, 4X, 7, 9
- Epsilon 07 ATEX 225IU
  - Class I, Zone I Exd IIB
  - Class I, Zone I Exd IIB+H2 (optional)
- IECEx UL 10.0046U
- IP66



## INCREASED SAFETY

Adalet offers a variety of enclosures which are rated to the increased safety (Exe) method of protection. These enclosures provide an alternative to flameproof enclosures and are intended to house electrical components which will not generate an arc or spark during normal operation. Additional design measures are taken to prevent the possibility of excessive heat, the ingress of water or dust, and the resistance to impact, thus preventing any explosions from occurring. From simple terminal enclosures to high voltage and control enclosures, Adalet's line of increased safety enclosures offers the flexibility to meet your custom requirements.



## SCREW COVER TERMINAL ENCLOSURES TSC4X(6) SERIES



Adalet's TSC4X(6) screw cover terminal are available in stainless steel 304 or 316L. Silicone gasket, slotted captive cover bolts, box & cover ground studs including an external earthing stud, and universal rail mounting system are included as standard (except 050503, mtg. pan used).

### STANDARD FEATURES

- 18 Standard sizes available
- Stainless steel captive hex head, slotted cover screws
- Type 4 watertight, silicone gasket
- Internal rail mount system (except 050503)
- Internal / external ground screws
- Wall mounting flange with .31" clearance holes

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Hinged Cover
- Mounting panels
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX I30438X
  - Exe II T6 (T5 : Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0016X
  - Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)



## CLAMPED COVER TERMINAL ENCLOSURES TN4X(6) SERIES



Adalet's TN4X(6) series increased safety terminal enclosures feature a clamped single door style design and are available in stainless steel 316L or 304. Standard features include silicone gaskets, removable hinge pins, box and cover ground studs, an internal/external ground stud, internal standoff and universal DIN rail mounting system. Enclosure sizes range from 16"x12"x6" through 60"x36"x10" with various custom sizes available. The TN4X series enclosures offer a fully approved ATEX / IECEx terminal enclosure solution.

### STANDARD FEATURES

- 75 Standard sizes available with depths of 6", 8" & 10"
- Stainless Steel clamps
- Type 4 watertight silicone gasket
- Continuous piano hinge with removable hinge pin
- Internal rail mount system
- Internal / external ground screws
- Wall mounting tabs, padlock hasp and staple

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Mounting panels
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)
- Auxiliary devices such as breathers, drains, hole plugs, data pockets, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130437X
  - Exe II T6 (T5: Tamb ≤+55°C) (T4: Tamb ≤+70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0016X
  - Exe II T6 (T5: Tamb ≤+55°C) (T4: Tamb ≤+70°C)
  - Ex tD A21 IP66 T200°C
- GOST-R

## INCREASED SAFETY TERMINAL ENCLOSURES VC4X(6) / VH4X(6) SERIES



Adalet's VC4X(6) / VH4X(6) series increased safety enclosures are designed to house terminal blocks providing a completed ATEX terminal enclosure in compliance with all current ATEX / IECEx standards. Available in 304 or 316L stainless steel, the quarter turn latch terminal enclosures include 13 standard sizes and any custom size in between.

### STANDARD FEATURES

- 13 Standard VH sizes available
- 24 standard VC sizes available
- Stainless steel quarter turn latch
- Fully removable, stainless steel hinge kit
- Type 4 watertight silicone gasket
- Painted steel mounting panel
- Internal / external ground screws
- Horizontal or vertical mounting lugs

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right)
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 09 ATEX 0803119X
- IECEx UL 08.0012X
  - Exe II T6 (T5: Tamb ≤+55°C)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exd II





## HIGH VOLTAGE TERMINAL ENCLOSURES HV4X(6) SERIES



The HV4X(6) series of increased safety high voltage termination enclosures feature a single door style with clamped cover and are available in stainless steel 316L or 304. The one in/one out connection series is designed for shielded or unshielded cables up to 8kV at 500A, while the two in/two out connection series is designed for two parallel unshielded cables up to 2kV at 1kA total. The HV4X series is offered in sizes from 24"x12"x6" to 60"x36"x16" for the 1 x 1 connection series, and 20"x20"x8" to 60"x36"x10" for the 2 x 2 connection series.

### STANDARD FEATURES

- 31 standard sizes available in 1 x 1 or 2 x 2 connection options
- Stainless steel captive cover clamps and screws
- Continuous piano hinge with removable hinge pin
- Type 4 watertight silicone gasket
- Set of three porcelain insulators with mechanical connectors
- Adjustable mounting panel and adjustable clamp rails
- Internal / external ground screws
- Wall mounting tabs, padlock hasp and staple

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries or cut outs
- UHWM-PE cable clamps
- Lamacoid or stainless steel nameplates
- Auxiliary devices such as breathers, drains, hole plugs, data pockets, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130437X
  - Exe II T6 (T5: I> 650A)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0071X
  - Exe II T6 (T5: I> 650A)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II T6 (T5: I> 650A)

## CONTROL ENCLOSURES CN4X(6) SERIES



Adalet's CN4X(6) single door clamped control enclosures are available in stainless steel 316L or 304. Adalet can also supply custom size enclosures, operators, and wiring of devices to rail mounted terminal blocks to suit your Increased Safety Application. Silicone gaskets, removable hinge pin, box & cover ground studs including an external earthing stud, along with internal standoffs for mounting pans are included as standard.

### STANDARD FEATURES

- 75 standard sizes available
- Stainless steel cover clamps and screws
- Continuous piano hinge with removable stainless steel pin
- Watertight silicone gasket
- Padlock hasp and staple
- Ground stud on box and cover
- External ground stud
- Wall mounting feet

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries and cut-outs
- Adalet EH series Exe operators
- Legend plates and lamacoid or stainless steel names plates
- Breather / drain & stopping plugs
- Terminal assembly population
- Stainless steel mounting panels
- Cable glands and conduit fittings

### CERTIFICATIONS

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups F, G
- Class I, Zone I, AEx d e mb IIC T6 (T5: Ta ≤+55° C)
- Type 4X, 12, 13
- Ex d e mb IIC T6X (T5: Ta ≤+55° C) (Canada)
- IECEx UL 09.0020X
- Ex d e mb IIC T6(T5: T4 ≤+55° C)
- Ex tD A21 IP66 T200° C
- DEMKO 01 ATEX 130437X
  - Ex demb II T6 (T5: Tamb ≤+55°C) (T4: Tamb ≤+70°C)
  - Ex tD A21 IP66 T200°C

INCREASED SAFETY



## INCREASED SAFETY CONTROL ENCLOSURES CSC4X(6) SERIES



Ten standard designs make up the CSC4X(6) line of stainless steel 316L control station enclosures ranging from 1 hole to 16 holes. Design configurations include in-line options for 1 to 4 holes as well as larger enclosures for 2 x 2 up to 4 x 4 designs. Custom sizes and hole configurations are available up to 24" x 24". The enclosures feature a continuous one piece silicone gasket which provides an IP66 ingress rating for dust-tight and water-tight locations. Cover hole cutouts are 30.5mm openings and are designed to house Adalet's standard line of increased safety pushbuttons, pilot lights, and selector switches.

### STANDARD FEATURES

- 10 standard sizes with 4" or 6" depths
- Hole configurations from 1 to 16 holes
- Vertical in-line configurations from 1 to 4 holes
- Type 4 watertight silicone gasket
- Cover entries for 30.5mm operators
- Internal / external ground screws
- Wall mounting tabs

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries or cut outs
- Mounting panels or universal rail mount system
- Lamacoid or stainless steel nameplates
- Adalet EH / EL series operating devices
- Auxiliary devices such as breathers, drains, hole plugs, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130438X
  - Ex demb II T6 (T5: Tamb ≤ +55°C) (T4: Tamb ≤ +70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0024X
- GOST-R
- Class I, Zone I Ex demb II T6 (T5: Tamb ≤ +55°C) (T4: Tamb ≤ +70°C)



## INCREASED SAFETY PILOT DEVICES



Adalet offers a complete line of increased safety operating devices including pilot lights, pushbuttons, mushroom head pushbuttons, illuminated pushbuttons, and selector switches. All operators are for use in control circuits functioning in Zone 1 & 2 rated environments and are used in conjunction with Adalet's increased safety control enclosures. These heavy duty operators are suitable for use in hazardous or corrosive atmospheres and are watertight for NEMA 4 applications. Adalet's Exe pilot devices are ATEX / IECEx certified as stand alone devices or when installed in an ATEX / IECEx certified increased safety enclosure. The devices are designed to fit into a standard 30.5mm opening and constructed from die-cast aluminum for rugged, industrial applications. Various contact block arrangements are available for pushbuttons and selector switches and various color LED bulbs are available for pilot lights.



## CABLE GLANDS



Adalet offers a variety of cable glands and fittings used in hazardous location applications. Available in brass, nickel plated brass, or stainless steel, the cable glands are for use in hazardous areas within the oil & gas, petrochemical, and marine applications. These fittings carry global certifications and are available in various gland sizes for metric and NPT threads. Available for both Exd and Exe applications, the cable glands can be equipped with various options such as special threads, seals, and plating.



## FLAME ARRESTORS



Adalet XFA2 Flame Arrester Fittings are designed to prevent flame propagation through tubing systems connected to explosionproof electrical enclosures. The stainless steel fittings provide for connections of electro/pneumatic and gas analysis devices. The 1/2" NPT male thread is used to mount the XFA2 in the enclosure wall. Designed with 1/4" NPT female threads on both ends, commercial tubing fittings can be easily installed.



## EXPLOSIONPROOF & INCREASED SAFETY PLUGS



Type 'Bd' or XDBH2 Breather Drains are used to allow the air inside an 'Ex d' Flameproof or Class I, Division I Explosionproof enclosure to breathe with the surrounding atmosphere and also to allow any moisture that enters the enclosure to drain while maintaining the overall integrity of the installation.

Type 'Be' Breather Drains are used to allow the air inside an Exe increased safety enclosure to breathe with the surrounding atmosphere and also to allow any moisture that enters the enclosure to drain while maintaining the overall integrity of the installation.

## KEY DESIGN FEATURES

**INTERNAL CONNECTIONS:** must not be subject to undue mechanical stress and shall be made using specified methods.

**CLEARANCES:** between bare conductive parts must not be less than the values specified according to the rated voltage.

**CREEPAGE DISTANCES:** must not be less than the values specified according to the rated voltage and the Comparative Tracking Index (CTI) of the insulating material.

**TEMPERATURES:** of parts of equipment must be limited so as not to exceed values which would affect the thermal stability of the material and the T-Class relating to the ignition of explosive atmospheres.

**ENCLOSURE:** must be constructed to withstand mechanical impact and provide a specified degree in ingress protection (IP rating). A minimum IP54 rating is required for Increased Safety enclosures.

**TERMINALS FOR EXTERNAL CONNECTIONS:** must be generously dimensioned for the intended connection and ensure that conductors are securely fastened.

## ASK ABOUT AVAILABLE OPTIONS AND MODIFICATIONS SUCH AS:

- EMI/RFI Shielding
- Breathers/drains
- Mounting pans
  - Gland plates
- Gland plates supplied pre-drilled or solid for field drilling
- Cable glands, stopping plugs, reducers, adaptors installation
  - Terminal rail assemblies - any Ex e terminal block
  - Custom polyester powder coating and silk screening

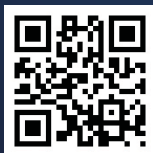


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# APPROVAL CHART

Model #	ATEX	UL/cULus	GOSTR	IECEX	KOSHA	FM
CN4X(6)	•	•	•	•		
CSCX(6)	•	•	•	•		
EBT	•	•	•	•		
EL_	•	•	•	•		
ELP_	•	•	•	•		
EHPB	•	•	•	•		
EWK	•	•	•	•		
HV4X(6)	•	•	•	•		
TN4(6)	•	•	•	•		
TSC4X(6)	•	•	•	•		
VC4X(6)	•	•	•	•		
VH4X(6)	•	•	•	•		
XCESX	•	•		•		
XCEX	•	•		•		
XCEX-T	•	•		•		
XCPX	•	•				
XHVX	•	•		•	•	
XIFX	•	•		•		
XIFCX	•	•		•		
XIFCX-T	•	•		•		
XIH_X	•	•		•		•
XDH_X	•	•		•		•
XDHI_X	•	•		•		
XIHM_X	•	•		•		•
XDHM_X	•	•		•		•
XIHL_X	•	•		•		•
XDHL_X	•	•		•		•
XFAX_	•	•				
XJ_X	•	•				
XLX	•	•				

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