

ENCLOSURES

HK/2HK SERIES

INSTRUMENT / DEVICE ENCLOSURES



HK



2HK



HKB

Empty Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups A, B, C, & D

Class I, Zone 1, AEx db IIC

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -60°C to +70°C (UL & CSA)

Ta = -20°C to +40°C (FM)

Files E83969 / E150827

File LR11716 - 1750685

File 1W1R4-RE

ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex db IIC Gb

Ex tb IIC Db IP66

Ta = -60°C to +70°C

DEMKO 01ATEX 15742U

IECEx UL 14.0071U

Gas Group "A" certified by FM only, add suffix "-GA".
Seal within 6"

For Group BCD seal within 18" of the box.

For Ex db IIC seal adjacent to the box.

FEATURES-SPECIFICATIONS

Features

- Explosion/flame proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- Boxes and covers are cast from a copper-free aluminum alloy
- Cast stainless steel box, flat, and lens cover available (HKSB-BC + HKSB-GLC)
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Three box styles available: HKB, HKBD single cover design and the 2HKB double cover design. 2HKB enclosure has two separate chambers for isolation between power and instrument.
- HKB, HKBD box has offset feed-thru conduit openings (3/4" NPT) for maximum use of interior volume
- 2HKB box has offset feed-thru conduit openings (3/4" NPT) on power side and one (3/4" NPT) on bottom instrument side
- Interior mounting pad (HKB, HKBD) in an "X" configuration for flexibility of adapting to OEM bolt circle
- Location of the internal ground screw boss does not interfere with the mounting of the instrument or device

- Eight different cover styles are available: standard flat cover, standard glass lens cover, 1" dome cover, 1" dome lens cover, 2" dome cover, 2" glass lens dome cover, 4" dome cover, and 4" dome lens cover.
- All covers have shrouded tamper-resistant set screws as standard which can help to combat excessive vibration in rugged settings
- Lugs on cover permit easy removal and tightening

Materials

- Boxes and covers – copper-free aluminum (less than 1/10 of 1%)
- HKSB series is 316 cast stainless steel

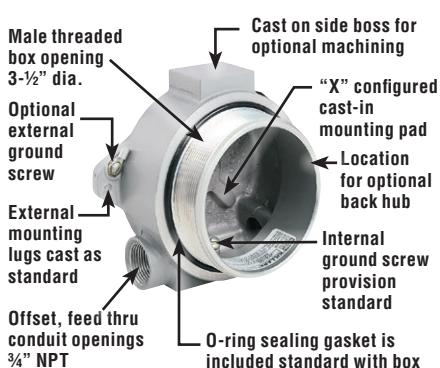
- O-ring sealing gasket – Neoprene rubber
- Ground screws – zinc plated steel with green dye (stainless steel on HKSB)
- Allen head cover screw – cadmium plated steel (stainless steel on HKSB)
- Glass lens – 3/8" thick tempered glass
- Finish – silver powder epoxy paint, electrostatically applied
- Special colors available in quantity

2HKB Series Boxes

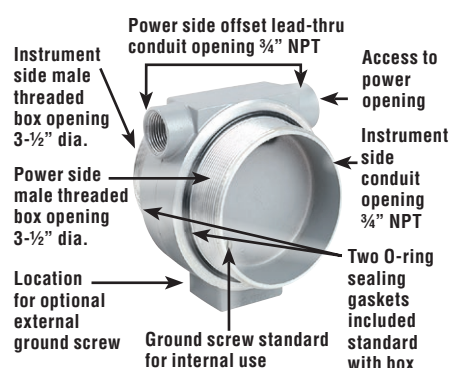
- The wall that separates the instrument side from the power side can be machined for slots or holes up to a maximum of two slots 5/16" by 1-1/2".

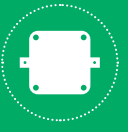
Submit drawings for machining requirements to Killark.

HK Design Features



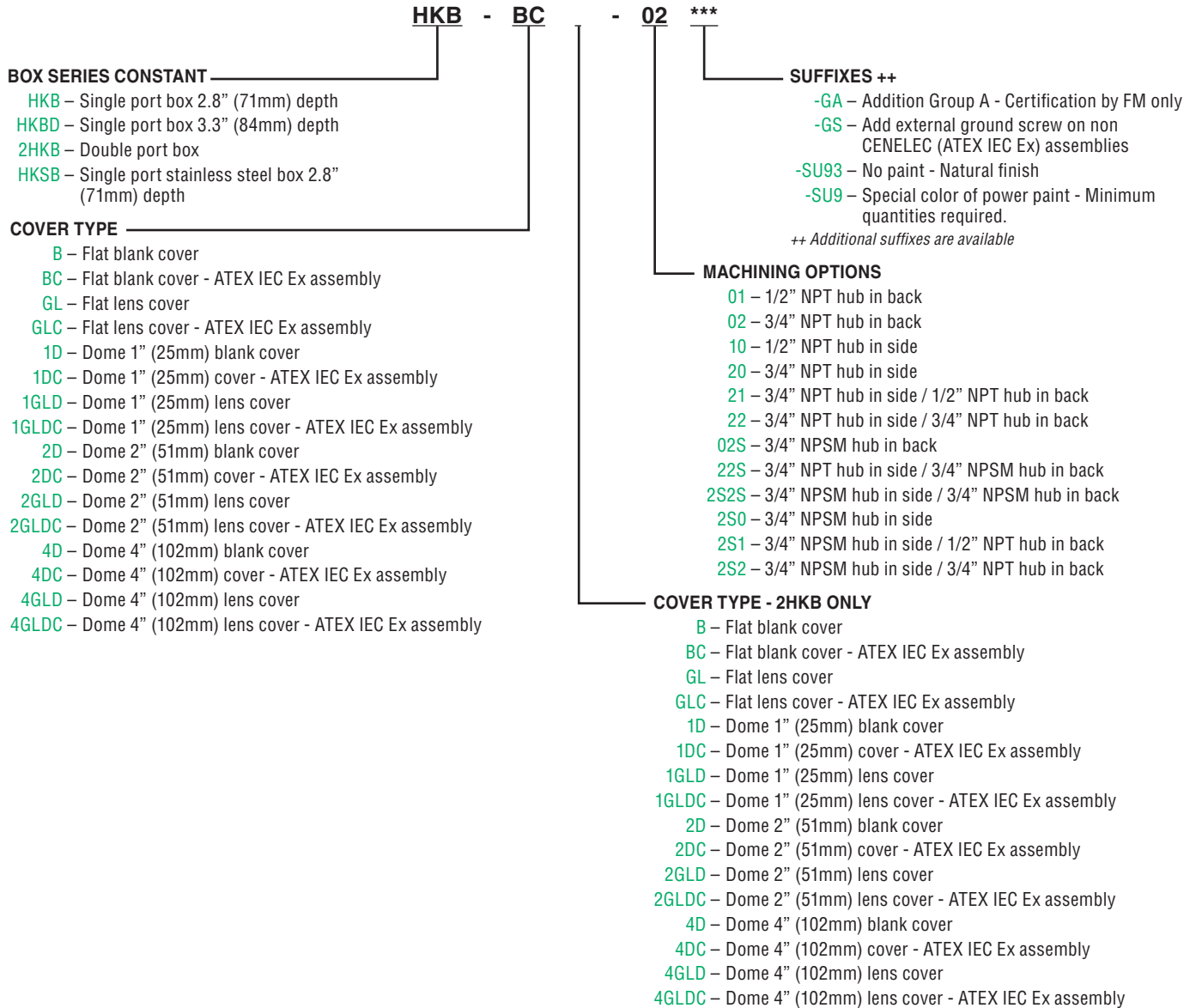
2HK Design Features

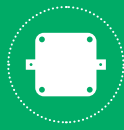




INSTRUMENT / DEVICE ENCLOSURES

CATALOG LOGIC





ENCLOSURES

HK/2HK SERIES

INSTRUMENT / DEVICE ENCLOSURES BOXES



HKB
HKBD



2HKB



HKB-BC



HKS-B-GLC

FLAT AND 1" DOME COVERS



HFC Blank



HKGL Lens



HK1D Blank



HK1GLD Lens

2" AND 4" DOME COVERS



HK2D Blank



HK2GLD Lens



HK4D Blank



HK4GLD Lens

FEATURES

2HKB Series Boxes

The wall that separates the instrument side from the power side can be machined for slots or holes up to a maximum of two slots $\frac{5}{16}$ " by $1\frac{1}{2}$ ". Submit drawings for machining requirements to Killark.

Factory Modifications

Approvals allow for factory or field modifications on HKB box for drilling and tapping conduit openings on side or back of enclosure without voiding UL-CSA-FM approvals. Internal mounting pad holes on "X" configured boss can be factory added by drilling from inside of box without piercing the bottom of enclosures. Assemblies with ATEX/IEC Ex approvals must be factory modified in order to comply with certifications.

Note: The HKB boxes and covers are not interchangeable with the HKBX series enclosures.

HK ASSEMBLED PARTS

CATALOG NUMBER (CAST ALUMINUM)

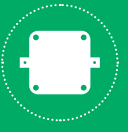
HKB BOX AND COVERS		HKB BOX & COVERS	2HKB BOX W/ BLANK COVER ON POWER SIDE & OPTIONAL COVER ON INSTRUMENT SIDE		COVER TYPE
UL-CSA-FM APPROVED	CENELEC UL-CSA-FM APPROVED	UL-CSA-FM APPROVED	(UL-CSA-FM)	CENELEC UL-CSA-FM APPROVED	
HKB-B	HKB-BC	HKBD-B	2HKB-B-B	2HKB-BC-BC	Standard flat
HKB-2D	HKB-2DC	HKBD-2D	2HKB-B-2D	2HKB-BC-2DC	2" Dome
HKB-4D	HKB-4DC	HKBD-4D	2HKB-B-4D	2HKB-BC-4DC	4" Dome
HKB-GL	HKB-GLC	HKBD-GL	2HKB-B-GL	2HKB-BC-GLC	Lens
HKB-2GLD	HKB-2GLDC	HKBD-2GLD	2HKB-B-2GLD	2HKB-BC-2GLDC	2" Dome lens

HK COMPONENT PARTS

CATALOG NUMBER	DESCRIPTION
HKB	Single cover box only
HKBD	Single deep box only
2HKB	Double cover Box only
HFC	Flat cover
HKGL	Lens cover
HK1D	1" Dome cover
HK1GLD	1" Dome lens cover
HK2D	2" Dome cover
HK4D	4" Dome cover
HK2GLD	2" Dome lens cover
HK4GLD	4" Dome lens cover
15722LABB	Rep. "O" Ring Gasket

HKS-B STAINLESS STEEL ASSEMBLED PARTS

HKS-B BOX AND COVERS CENELEC UL-CSA-FM APPROVED	COVER TYPE
HKS-B-BC	Standard flat
HKS-B-GLC	Lens



INSTRUMENT / DEVICE ENCLOSURES



HK

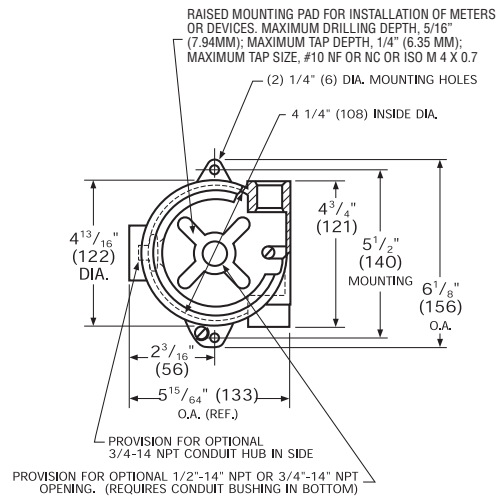


HKSB - Stainless Steel

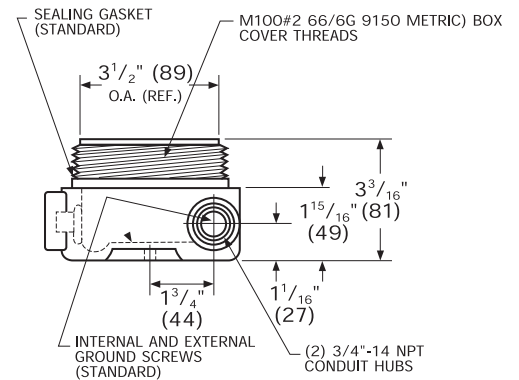
Dimensions

Note: Add 1/2" to all depth dimensions when using HKBD Deep Box.

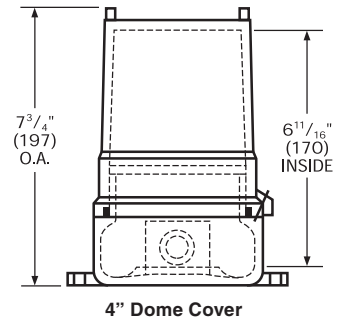
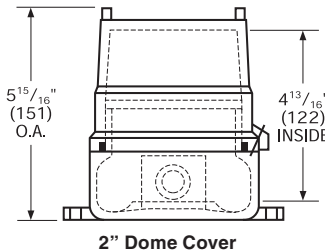
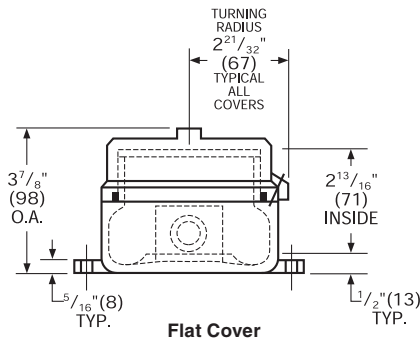
HKBD volume = 33 cu.in.



HKB Volume: 31 cu. in.



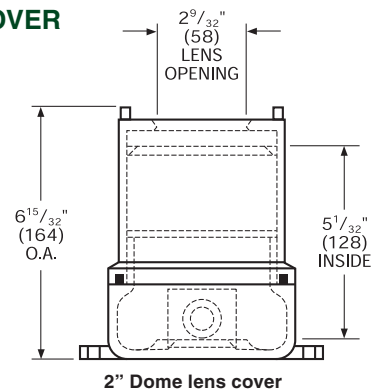
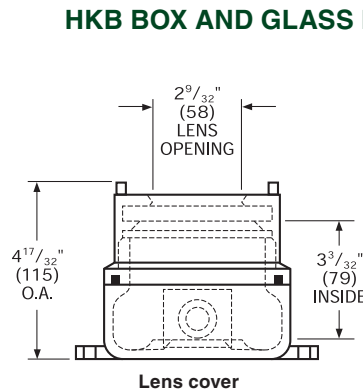
HKB BOX AND BLANK COVER

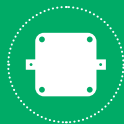


For HK1GLD (1" Dome Lens Cover), add 1" to lens cover verticle height dimensions

For HK4GLD (4" Dome Lens Cover), add 2" to 2 dome lens cover verticle height dimensions

HKB BOX AND GLASS LENS COVER





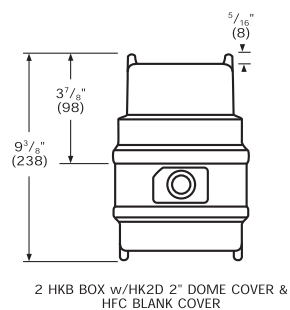
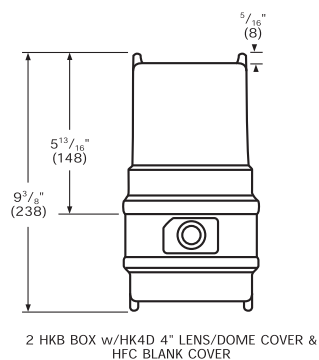
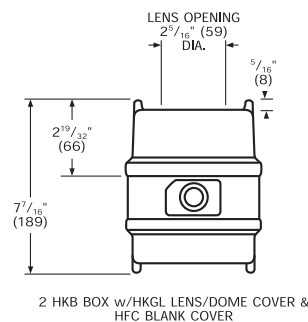
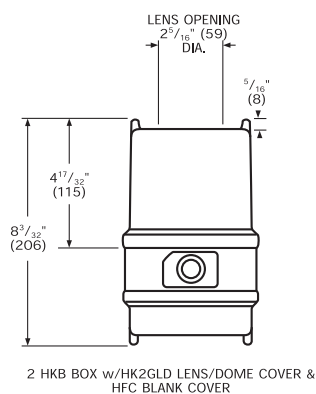
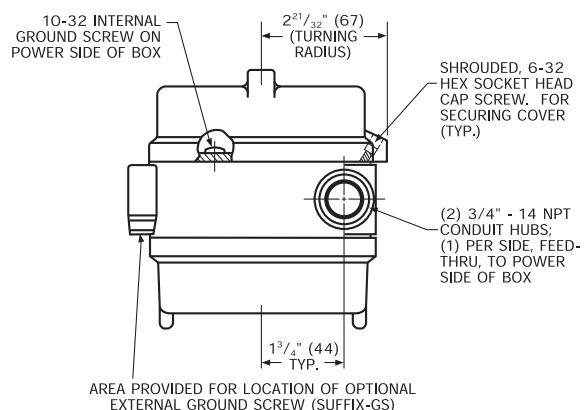
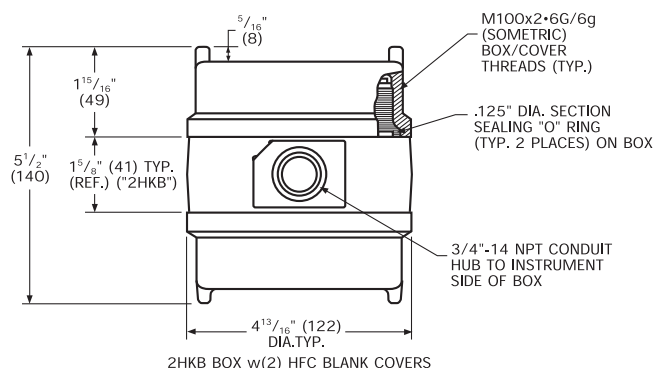
ENCLOSURES 2HK SERIES

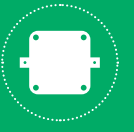
INSTRUMENT / DEVICE ENCLOSURES



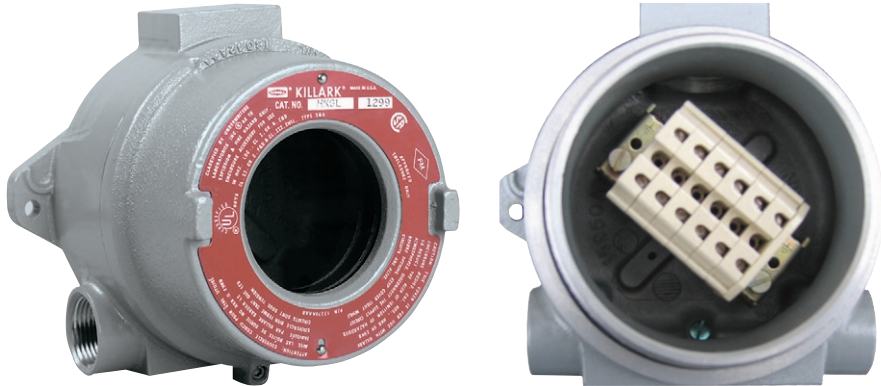
2HK

Dimensions





HK TERMINAL BOX - UL / CSA / ATEX / IEC EX



HKB-TB Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups A, B, C, & D
Class I, Zone 1, AEx db IIC
Class II, Div. 1 & 2, Groups E, F, & G
Class III
Type 3, 4, 4X

Ta = -60°C to +70°C (UL & CSA)

Ta = -20°C to +40°C (FM)

File E83969

File LR11716 - 1750685

File 1W1R4-RE

ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex db IIC T4...T3 Gb

Ex eb IIC T4...T3 Gb

Ex tb IIIC T110°C...T140°C IP66

Ta = -60°C to +70°C

DEMKO 06ATEX 141023X

DEMKO 06ATEX 0521635X

IECEX UL 14.0060X

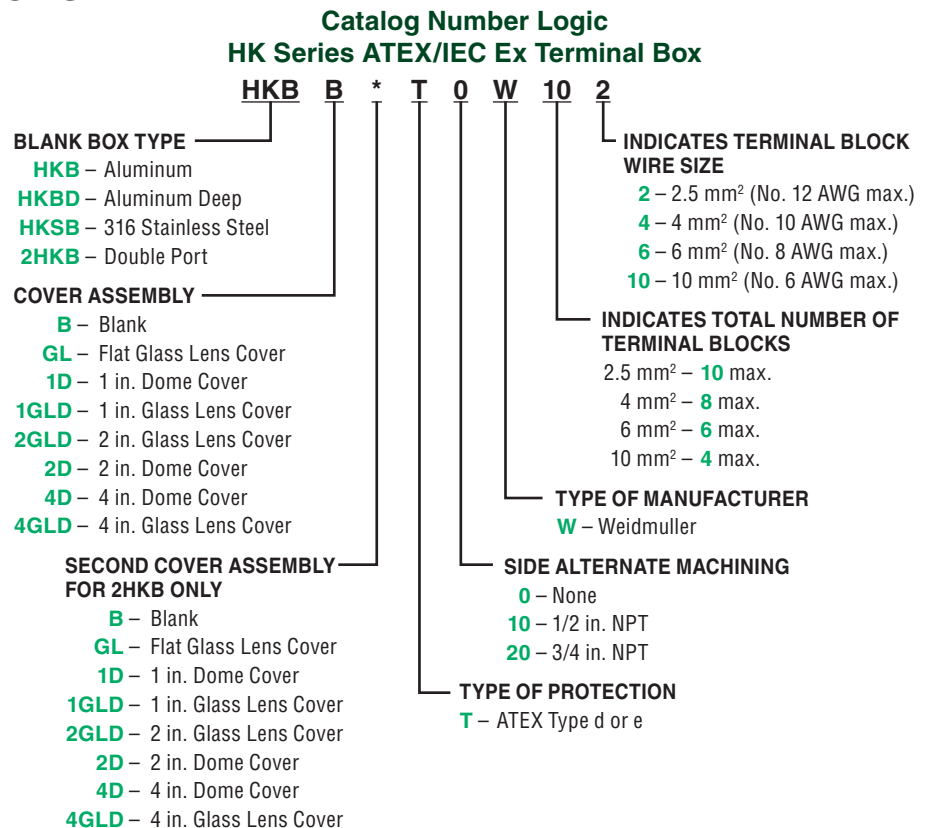
IECEX UL 14.0069X

FEATURES-SPECIFICATIONS

UL DEMKO **Increased Safety/Flame Proof** **Terminal Enclosure**

Features

- Select from 4 body types and 8 different covers
- Single port box provided with two ¾" NPT standard openings. One additional ½" or ¾" NPT can be added.
- Double port has three ¾" NPT's as standard
- Maximum (10) 2.5mm² blocks. Quantity doubles for 2HKB's.
- 630 Volts max. and 60 Amps max.
- Group A FM only on HK single cover box.
- Seal within 18" of enclosure for Group BCD and within 6" for group A in Class and Division applications.
- Seal immediately adjacent to enclosure for EX db IIC applications.



ORDERING EXAMPLE: HKB-B-T1W102

DESCRIPTION: HKB box with blank cover, with ½" NPT (in the side) pad, with qty. ten 2.5mm² Weidmuller terminal blocks.

DIMENSIONS: See the HKB empty enclosure section at the end of this section.v