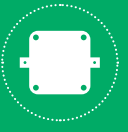


ENCLOSURES HKBX SERIES



3-5/8" (92mm) diameter viewing window while maintaining the compact body diameter of 5" (127mm)

Smooth die cast finish with gray powder paint for an aesthetically pleasing look to an OEM product – other colors available

Die cast from 413 aluminum alloy, copper free and low magnesium content

Internal pad for additional openings through the back wall can be drilled and tapped: 1/2" NPT or NPSM, 3/4" NPT or NPSM, M20, M25

Large straight internal opening, 4-1/4" (108mm) diameter with a full depth – no wasted space

Large wire way opening for ease of wire pull in the field

Anti-turn internal ground screw assembly

Anti-turn external ground screw assembly

Recessed cross notches for wrenching when required

Large recess grip slots for opening and closing of cover even while wearing heavy gloves

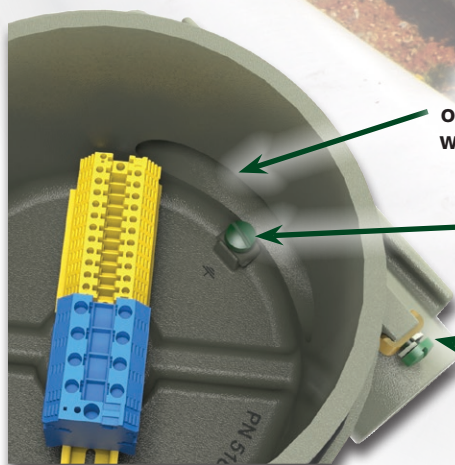
Cover locking set screw standard in all covers. Prevents tampering and unauthorized access to the internal components.

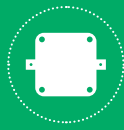
Large "X" pad which will accept any diameter bolt circle

Standard with three 3/4" NPTs openings. Optional sizes of 3/4" NPSM and M25 can be special ordered

O-ring gasket for a Type 3, 4 IP66 environment rating

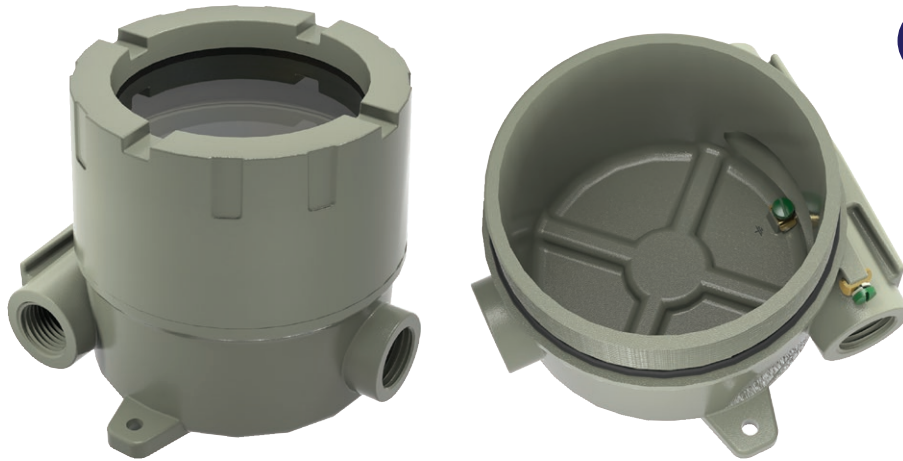
Mounting lugs with 1/4" (6.3mm) diameter mounting holes





ENCLOSURES

HKBX SERIES



HKBX

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)



Files E83969 E150827



File LR11716 - 1750685

ATEX / IEC Ex Certificate



II 2 G D CE 2813

Ex db IIC Gb

Ex tb IIIC Db IP66

Ta = -60°C to +70°C

DEMKO 01ATEX 15742U

IECEX UL 14.0071U

FEATURES-SPECIFICATIONS

Features

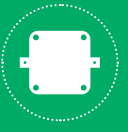
- Explosion/flare proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- ATEX & IEC Ex standard on all assemblies
- Box and covers are die cast from copper-free aluminum
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Large viewing diameter of 3-5/8" (92mm)
- Large 4-1/4" (108mm) diameter internal cover opening with a full depth – no wasted space
- Three 3/4" NPT offset feed-through conduit openings. Optional 3/4" NPSM or M25 openings available.
- Large internal mounting pad supplied in a "X" configuration for the flexibility of adapting to any OEM bolt circle
- Internal and external anti-turn ground (earth) terminals
- Cover with shrouded tamper-resistant set screw
- Recessed cover lugs permit easy removal and tightening. Large recess grip slots for opening and closing of the cover.
- Cast-on mounting lugs with 1/4" (6.3mm) diameter mounting holes
- Same mounting foot print as the legacy HKB Series boxes

Materials

- **BOX AND COVER:** die cast from 413 copper-free aluminum, containing less than 1/10 of 1% alloy and less than 6% magnesium
- **O-RING GASKET NEOPRENE** - 70 durometer nitrile compound
- **GROUND (EARTH) SCREW** - 316 stainless steel with green plating
- **ALLEN HEAD COVER LOCKING SCREW** - 316 stainless steel
- **GLASS LENS** - 3/8" (9.5mm) thick tempered float glass
- **FINISH** - silver powder epoxy paint electrostatically applied
- Special colors available in quantity

Factory / Field Modifications

- **UL AND CSA APPROVALS** allow for the field drilling and tapping of blind holes into the internal "X" ribs for mounting of customer equipment. The internal pad allows for the field drilling and tapping for one additional opening, 1/2" NPT or NPSM, 3/4" NPT or NPSM, M20 or M25.
- **ATEX IEC EX APPROVALS** all machining modifications must be done by the factory



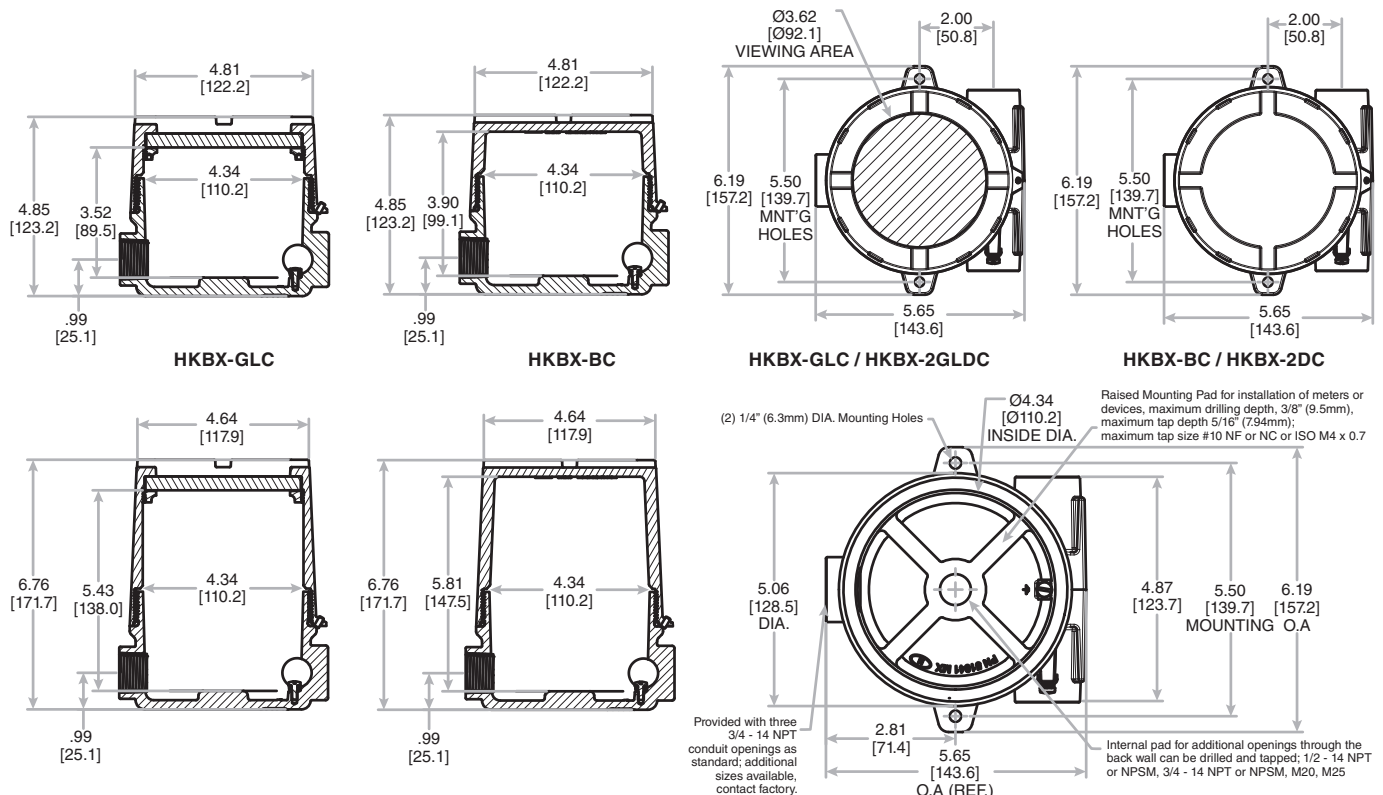
CATALOG LOGIC

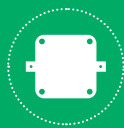
Back Box - Series Constant	Cover Type	Back Wall Additional Openings - Optional	*** (Contact Factory For Availability)
HKBX	BLANK - No Cover - Box Only	10 - 1/2" NPT	Side Hub Alternate Openings
	BC - Blank Flat Cover - HFCX	1S - 1/2" NPSM	2S - 3/4" NPSM
	GLC - Lens Flat Cover - HKXGL	20 - 3/4" NPT	M25 - M25 Metric Straight
	2DC - Blank 2" Dome Cover - HKX2D	2S - 3/4" NPSM	MX - Mix of Sizes
	2GLDC - Lens 2" Dome Cover - HKX2GLD	M20 - M20 Metric Straight	
		M25 - M25 Metric Straight	

HKBX COMPONENT AND ASSEMBLY NUMBERS	
CATALOG NUMBER	ITEM DESCRIPTION
HKBX	Box only 4-1/4" (108mm) internal diameter opening
HFCX	Flat cover 4-1/4" (108mm) internal diameter opening
HKXGL	Lens cover 3-5/8" (92mm) diameter viewing
HKX2D	Dome 2" cover 4-1/4" (108mm) internal diameter
HKX2GLD	Dome 2" lens cover 3-5/8" (92mm) diameter viewing
HKBX-BC	Box with flat cover 4-1/4" (108mm) internal diameter QUAD Approvals
HKBX-GLC	Box with lens cover 3-5/8" (92mm) viewing QUAD Approvals
HKBX-2DC	Box with 2" dome cover 4-1/4" (108mm) internal diameter QUAD Approvals
HKBX-2GLDC	Box with 2" dome lens cover 3-5/8" (92mm) viewing QUAD Approvals
HKBX-GRD	HKBX replacement ground kit
15722JABB	HKBX replacement "O" ring

Note: The HKBX covers are non-interchangeable with the legacy HKB's covers.

HKBX FACTORY MODIFICATIONS	
OPTIONAL FACTORY MACHINING	
CATALOG SUFFIX	MODIFICATION DESCRIPTION
-10	1/2" NPT in the back wall
-1S	1/2" NPSM in the back wall
-20	3/4" NPT in the back wall
-2S	3/4" NPSM in the back wall
-2SS	3/4" NPSM in the side hubs <i>Consult Factory for Pricing</i>
-M20	M20 in the back wall
-M25	M25 in the back wall
-M25S	M25 in the side hubs <i>Consult Factory for Pricing</i>
-MX	Mix of sizes and locations <i>Consult Factory for Pricing</i>

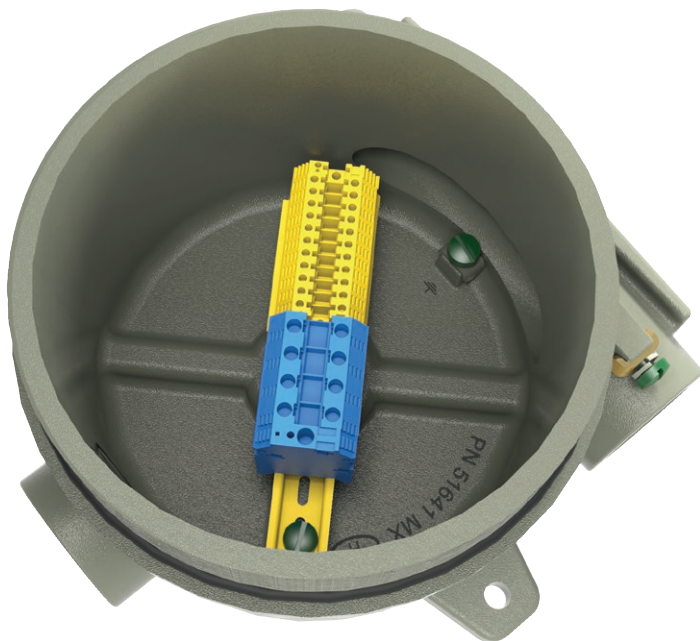




ENCLOSURES

HKBX-TB SERIES

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



HKBX-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



File E83969



File LR11716 - 1750685

ATEX / IEC Ex Certificate



II 2 G D CE 2813

Ex db IIC T4...T3 Gb

Ex eb IIC T4...T3 Gb

Ex tb IIC 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

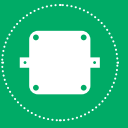
Features

- Maximum (10) 2.5mm² terminal blocks
- Maximum 630VAC, 60 AMPs
- Enclosures are explosion/flare proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- ATEX & IEC Ex standard on all assemblies
- Box and cover without ATEX IEC Ex can be sold separately
- Box and covers are die cast from copper-free aluminum
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Large 4-1/4" (108mm) diameter internal cover opening with a full depth – no wasted space
- Three 3/4" NPT offset feed-through conduit openings. Optional 3/4" NPSM or M25 openings available.
- Large internal mounting pad supplied in a "X" configuration for the flexibility of adapting to any OEM bolt circle
- Internal and external anti-turn ground (earth) terminals
- Cover with shrouded tamper-resistant set screw
- Recessed cover lugs permit easy removal and tightening. Large recess grip slots for opening and closing of the cover.
- Cast-on mounting lugs with 1/4" (6.3mm) diameter mounting holes
- Same mounting foot print as the legacy HKB Series boxes

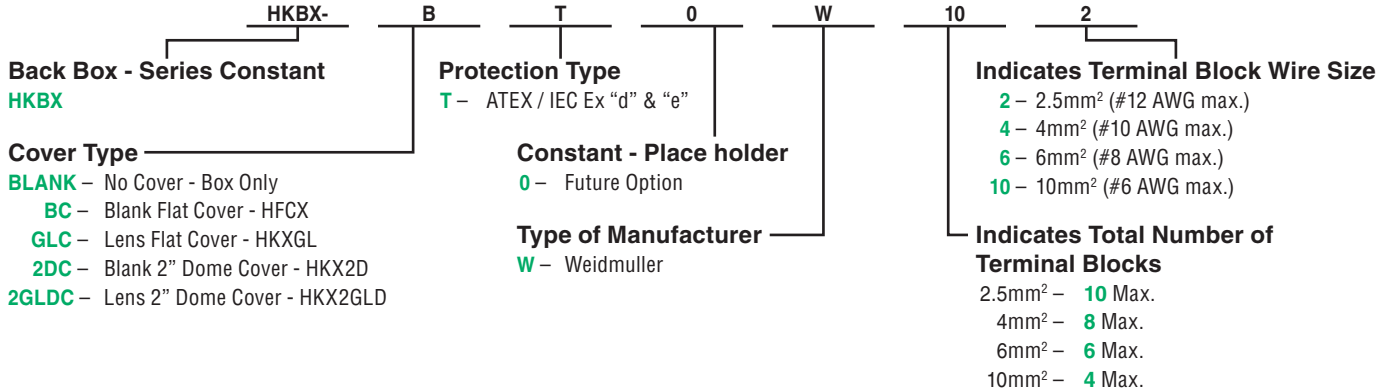
Materials

- **BOX AND COVER:** die cast from 413 copper-free aluminum, containing less than 1/10 of 1% alloy and less than 6% magnesium
- **O-RING GASKET NEOPRENE** - 70 durometer nitrile compound
- **GROUND (EARTH) SCREW** - 316 stainless steel with green plating.
- **ALLEN HEAD COVER LOCKING SCREW** - 316 stainless steel
- **FINISH** - silver powder epoxy paint electrostatically applied
- Special colors available in quantity

ENCLOSURES
HKBX-TB SERIES



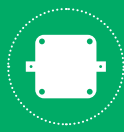
CATALOG LOGIC



REPLACEMENT COMPONENTS	
CATALOG NUMBER	DESCRIPTIONS
HKBX-GRD	HKBX replacement ground kit
15722AAAB	HKBX replacement "O" ring

Note: The HKBX covers are non-interchangeable with the legacy HKB's covers.

HKBX FACTORY MODIFICATIONS	
OPTIONAL FACTORY MACHINING	
CATALOG SUFFIX	MODIFICATION DESCRIPTION
-2SS	3/4" NPSM in the side hubs Consult Factory for Pricing
-M25S	M25 in the side hubs Consult Factory for Pricing
-MX	Mix of sizes and locations Consult Factory for Pricing



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

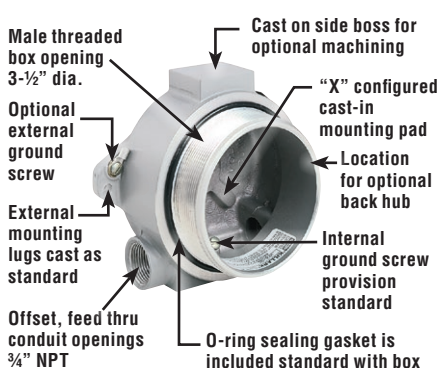
- O-ring sealing gasket – Neoprene rubber
- Ground screws – zinc plated steel with green dye (stainless steel on HKSB)
- Allen head cover screw – cadmium plated steel (stainless steel on HKSB)
- Glass lens – 3/8" thick tempered glass
- Finish – silver powder epoxy paint, electrostatically applied
- Special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

2HKB Series Boxes

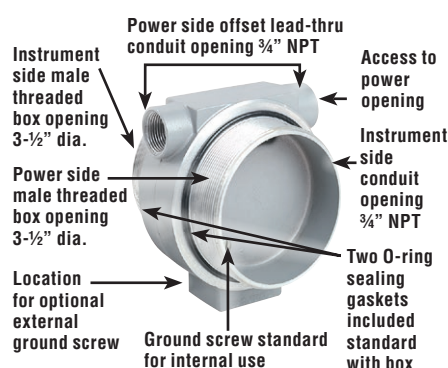
- The wall that separates the instrument side from the power side can be machined for slots or holes up to a maximum of two slots 5/16" by 1-1/2".

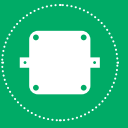
Submit drawings for machining requirements to Killark.

HK Design Features



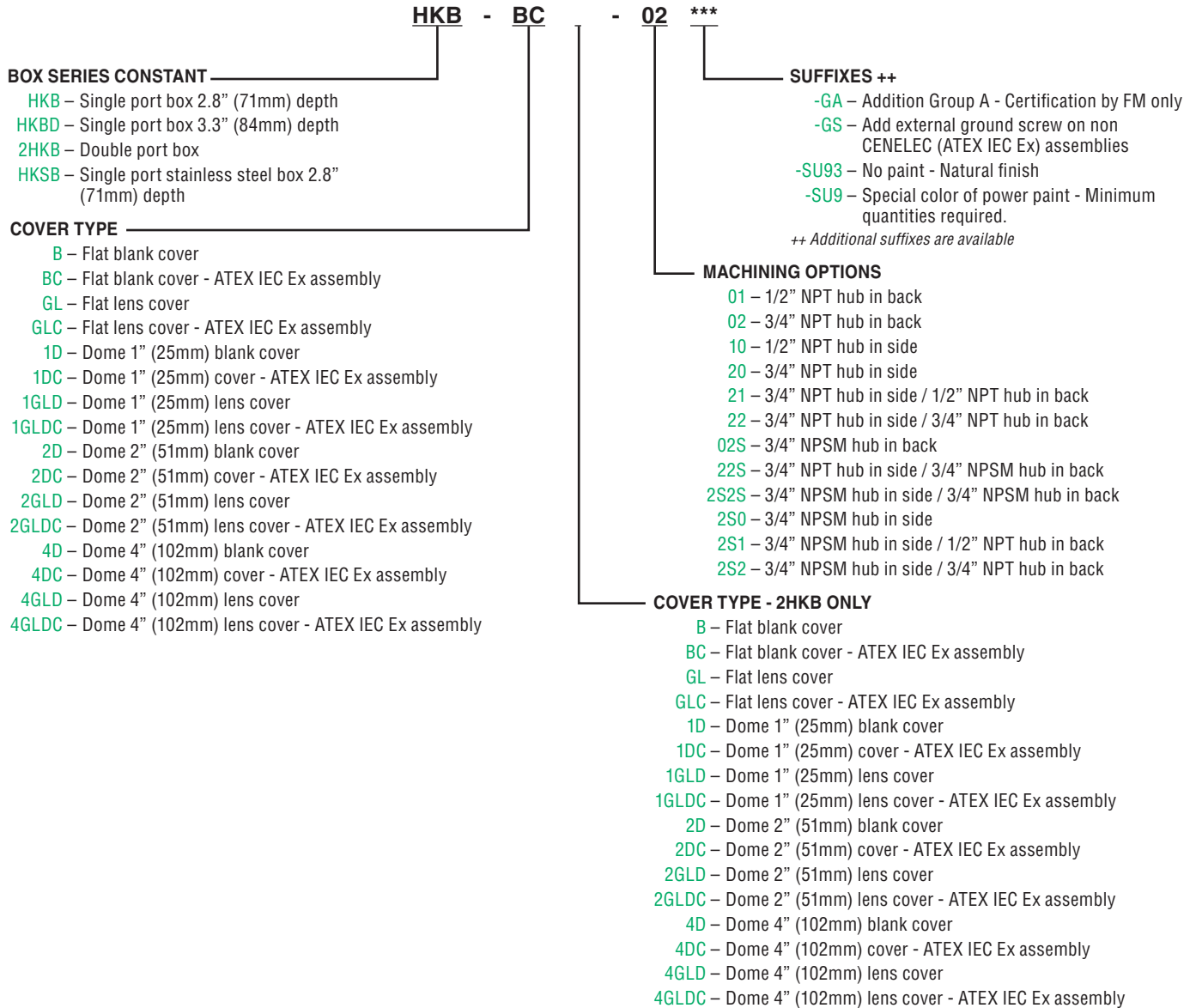
2HK Design Features

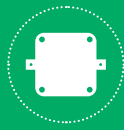




INSTRUMENT / DEVICE ENCLOSURES

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)

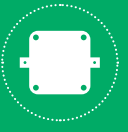
HKB BOX AND COVERS		HKB BOX & COVERS	2HKB BOX W/ BLANK COVER ON POWER SIDE & OPTIONAL COVER ON INSTRUMENT SIDE		COVER TYPE
UL-CSA-FM APPROVED	CENELEC UL-CSA-FM APPROVED	UL-CSA-FM APPROVED	(UL-CSA-FM)	CENELEC UL-CSA-FM APPROVED	
HKB-B	HKB-BC	HKBD-B	2HKB-B-B	2HKB-BC-BC	Standard flat
HKB-2D	HKB-2DC	HKBD-2D	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

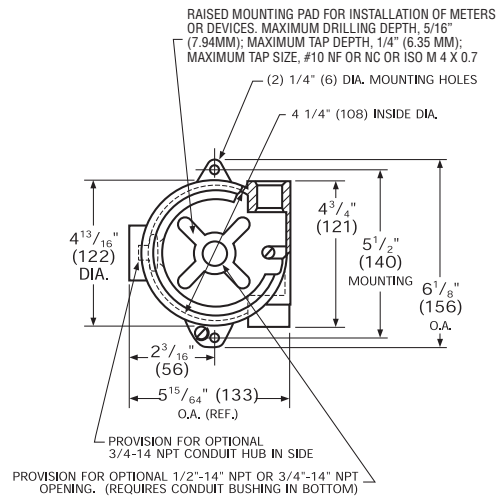


HKSB - Stainless Steel

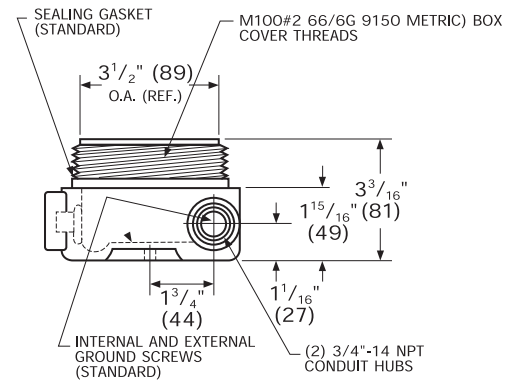
Dimensions

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

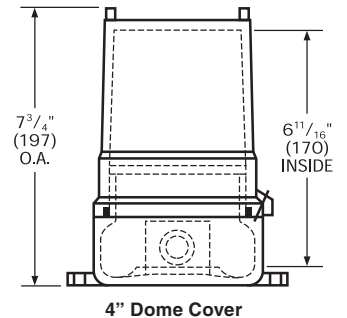
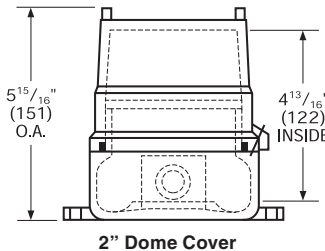
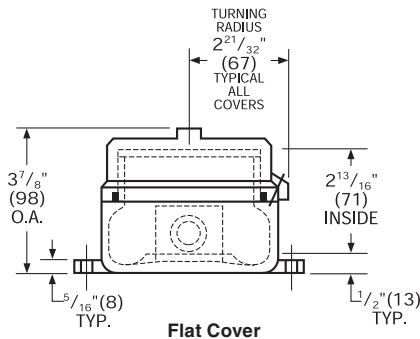
HKBD volume = 33 cu.in.



HKB Volume: 31 cu. in.



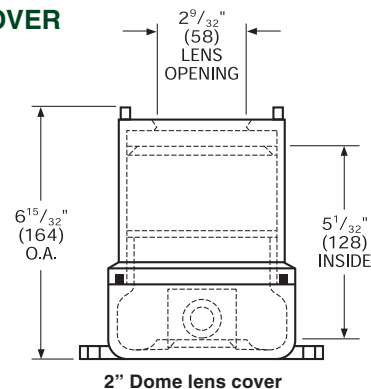
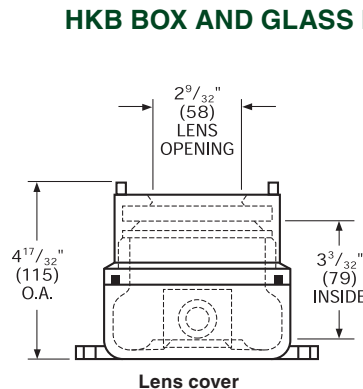
HKB BOX AND BLANK COVER

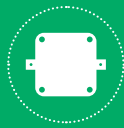


For HK1GLD (1" Dome Lens Cover), add 1" to lens cover verticle height dimensions

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

HKB BOX AND GLASS LENS COVER





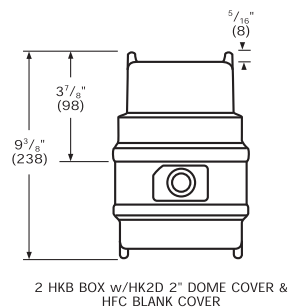
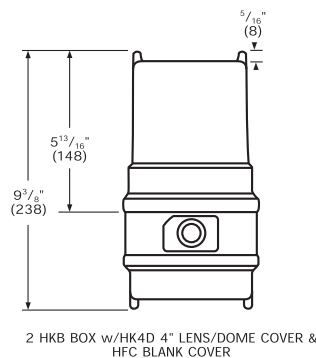
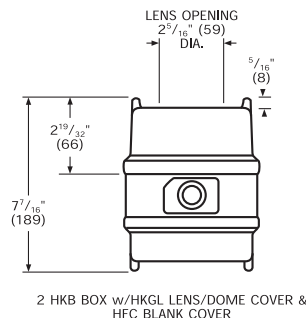
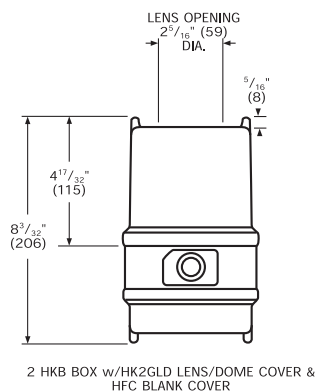
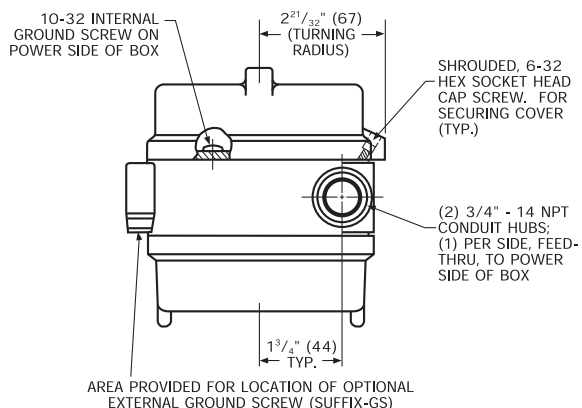
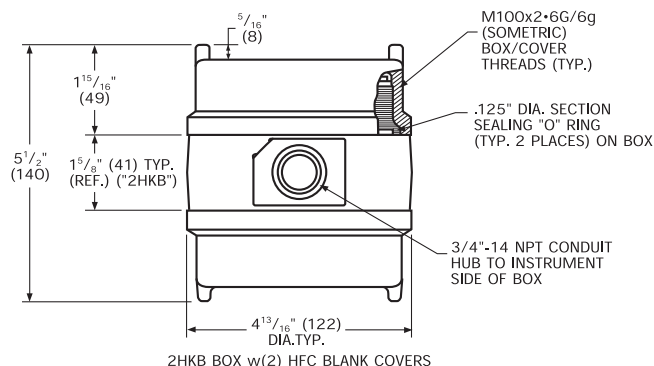
ENCLOSURES 2HK SERIES

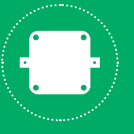
INSTRUMENT / DEVICE ENCLOSURES



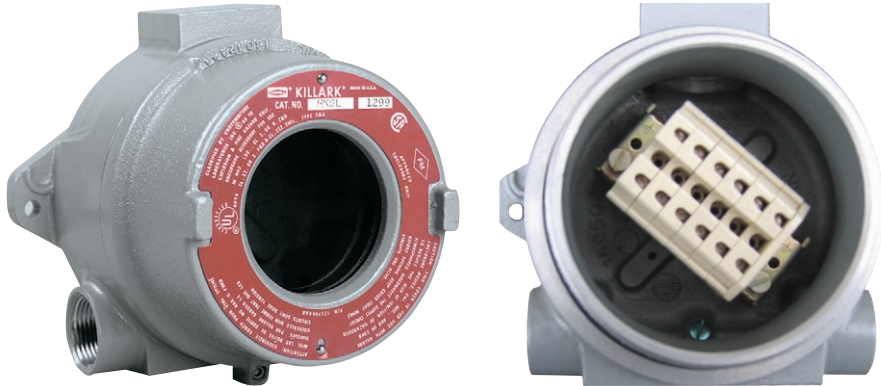
2HK

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.

Catalog Number Logic **HK Series ATEX/IEC Ex Terminal Box**

	HKB	B	*	T	0	W	10	2	
BLANK BOX TYPE	HKB – Aluminum	HKBD – Aluminum Deep	HKSB – 316 Stainless Steel	2HKB – Double Port					
COVER ASSEMBLY	B – Blank	GL – Flat Glass Lens Cover	1D – 1 in. Dome Cover	1GLD – 1 in. Glass Lens Cover	2GLD – 2 in. Glass Lens Cover	2D – 2 in. Dome Cover	4D – 4 in. Dome Cover	4GLD – 4 in. Glass Lens Cover	
SECOND COVER ASSEMBLY FOR 2HKB ONLY	B – Blank	GL – Flat Glass Lens Cover	1D – 1 in. Dome Cover	1GLD – 1 in. Glass Lens Cover	2GLD – 2 in. Glass Lens Cover	2D – 2 in. Dome Cover	4D – 4 in. Dome Cover	4GLD – 4 in. Glass Lens Cover	
INDICATES TERMINAL BLOCK WIRE SIZE									2 – 2.5 mm² (No. 12 AWG max.) 4 – 4 mm² (No. 10 AWG max.) 6 – 6 mm² (No. 8 AWG max.) 10 – 10 mm² (No. 6 AWG max.)
INDICATES TOTAL NUMBER OF TERMINAL BLOCKS									2.5 mm² – 10 max. 4 mm² – 8 max. 6 mm² – 6 max. 10 mm² – 4 max.
TYPE OF MANUFACTURER						W – Weidmuller			
SIDE ALTERNATE MACHINING					0 – None 10 – 1/2 in. NPT 20 – 3/4 in. NPT				
TYPE OF PROTECTION				T – ATEX Type d or e					

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