

Description:

The ASM/CI range comprises of three flameproof enclosures manufactured from cast iron. Enclosure bodies are fitted with flat hinged cover for mounting of operators or viewing windows as required.

Application:

ASM/CI enclosures can be customized to suit the needs of your specification. Typical applications are terminal junction boxes, control junction boxes and engineered solutions. Many safe area components can be installed inside the enclosures.

Materials:

Body: Cast iron.
Screws: Stainless steel.
For details see data tables overleaf.

Certification characteristics:

Marking to 94/9/EC: II 2GD
Zones: 1 – 21 – 2 – 22

For type of protection, certificates, ambient temperature ranges and ingress protection please see data tables overleaf.

Threads:

Metric threaded.

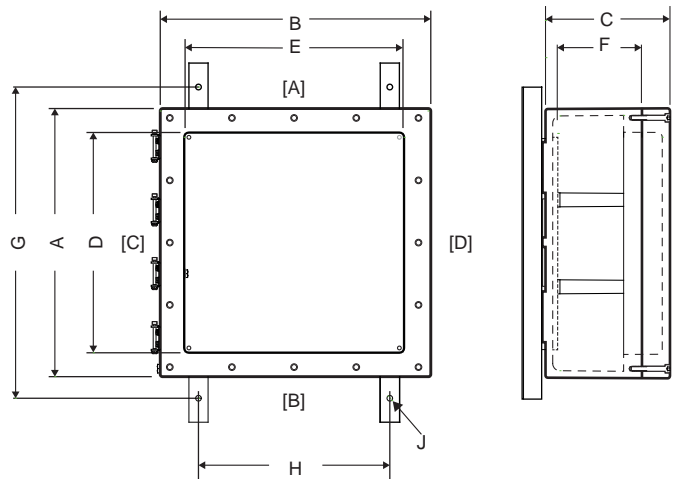
Inhibiting treatments:

Zinc rich epoxy powder primer plus epoxy powder top coat black.

Features:

Enclosure cover: hinged non-detachable
Mounting: 2 x fabricated stainless steel mounting straps.

Drawing ASM



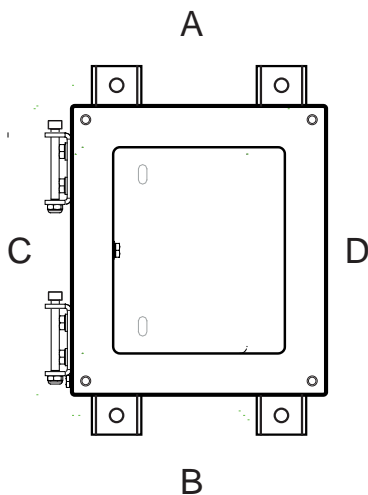
Legend:

- A - Maximum external dimension.
- B - Maximum external dimension.
- C - Maximum external dimension.
- D - Internal dimension.
- E - Internal dimension.
- F - Internal depth.
- G - Fixing holes wheel base.
- H - Fixing holes wheel base.
- J - Fixing holes diameter.
- [A] - Entry face.
- [B] - Entry face.

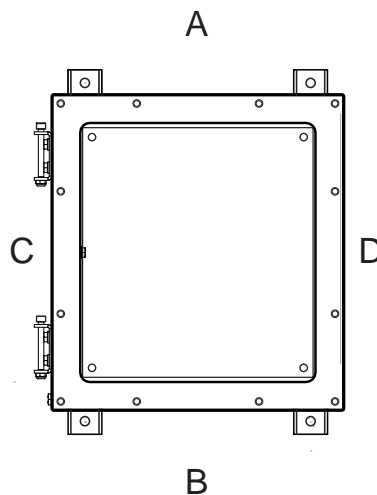
For details see Dimensions Data Table.

Enclosure types:

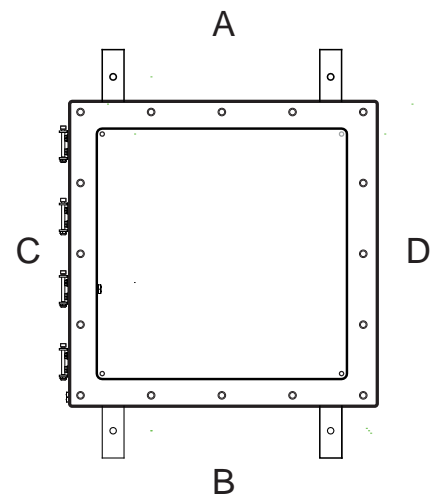
For drawing references, dimensions [mm] and approx. weight [kg] see Dimensions Data Table.



Type B - ASM130



Type C - ASM150



Type D - ASM170

Release date 2013-06-22 T164762

ASM/CI - Dimensions Data Table

| Type | Dimensions external [mm] | | | Dimensions internal [mm] | | | Fixation [mm] | | | Enclosure material | Weight approx. [kg] | Drawing reference see *1* |
|-----------|--------------------------|-----|-----|--------------------------|-----|-----|---------------|-----|---------|--------------------|---------------------|---------------------------|
| | A | B | C | D | E | F | G | H | Diam. J | | | |
| ASM130/CI | 210 | 185 | 156 | 150 | 125 | 85 | 240 | 120 | 9.1 | cast iron | 20 | B |
| ASM150/CI | 335 | 310 | 205 | 275 | 250 | 133 | 360 | 240 | 10.3 | cast iron | 50 | C |
| ASM170/CI | 560 | 560 | 266 | 460 | 460 | 174 | 650 | 400 | 10.3 | cast iron | 172 | D |

1 Reference drawings see at preceeding page

ASM/CI - Mechanical Specification

| Type | Number of rails | | Usable length per rail [mm] | | Max. power dissipation [W] | Grounding see *2* | Cover fixing screws Stainless steel | Ingress protection EN60529 | Seal see *1* |
|-----------|-----------------|------------|-----------------------------|------------|----------------------------|-------------------|-------------------------------------|----------------------------|--------------|
| | vertical | horizontal | vertical | horizontal | | | | | |
| ASM130/CI | 1 | 1 | 120 | tbc | 7 | 1 | M8 | IP66 | 2 |
| ASM150/CI | 2 | 2 | 245 | tbc | 62 | 1 | M8 | IP66 | 2 |
| ASM170/CI | 4 | 4 | 436 | 436 | 200 | 2 | M10 | IP66 | 2 |

1 Seal:
2 - One piece closed cell neoprene.

2 Grounding:
1 - base: internal and external M6 grounding point, cover: internal M6 grounding point.
2 - base: internal and external M10 grounding point, cover: internal M10 grounding point.

ASM - Cable Glands

| Type | Entries Face A | | | | | Entries Face B | | | | | Entries Face C | | | | | Entries Face D | | | | |
|-----------|----------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| | M16 | M20 | M25 | M32 | M40 | M16 | M20 | M25 | M32 | M40 | M16 | M20 | M25 | M32 | M40 | M16 | M20 | M25 | M32 | M40 |
| ASM130/CI | 5 | 5 | 5 | 2 | 2 | 5 | 5 | 5 | 2 | 2 | 7 | 5 | 5 | 3 | 2 | 7 | 5 | 5 | 3 | 2 |
| ASM150/CI | 11 | 11 | 8 | 7 | 3 | 11 | 11 | 8 | 7 | 3 | 11 | 11 | 8 | 7 | 3 | 11 | 11 | 8 | 7 | 3 |
| ASM170/CI | 12 | 12 | 12 | 6 | 6 | 12 | 12 | 12 | 6 | 6 | 12 | 12 | 12 | 6 | 6 | 12 | 12 | 12 | 6 | 6 |

Note: NPT, PG and ET threads available on request.
Max. quantity per gland size. For combination of different gland sizes please contact Pepperl+Fuchs.

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ASM/CI - Certification characteristics

Marking to 94/9/EC

II 2 GD

Type of protection

- 1.1 Ex d IIB T5 Gb, Ex tb IIIC T82 °C Db (ta ... +55 °C)
- 1.2 Ex d IIB T5 Gb, Ex tb IIIC T87 °C Db (ta ... +55 °C)
- 1.3 Ex d IIB T5 Gb, Ex tb IIIC T95 °C (ta ... +55 °C)
- 1.4 Ex d IIB T6 Gb, Ex tb IIIC T76 °C Db (ta ... +50 °C)
- 1.5 Ex d IIB T6 Gb, Ex tb IIIC T80 °C (ta ... +40 °C)

Certificate

- 2.2 SIRA 03 ATEX 1215
- 2.3 SIRA 04 ATEX 1266X
- 2.4 SIRA 04 ATEX 1267X

Ambient temperature

- 3.1 -20 ... 55 °C (-4 ... 131 °F)
- 3.2 -40 ... 55 °C (-40 ... 131 °F)

IECEX approval

- 4.1 IECEX SIR 08.0055
- 4.2 IECEX SIR 08.0056X
- 4.3 IECEX SIR 08.0057X

GOST-R approval

- 5.2 GOST-R B01008

ASM/CI - Certification cross-reference

for certification characteristics please see table above

| Type | Type of protection | Certification | Ambient temperature | IECEX | GOST-R |
|-----------|--------------------|---------------|--------------------------------|---------|---------|
| | see (1) | see (2) | | see (4) | see (5) |
| ASM130/CI | 1.3, 1.5 | 2.2 | -20 ... 55 °C (-4 ... 131 °F) | 4.1 | 5.2 |
| ASM150/CI | 1.1, 1.4 | 2.3 | -40 ... 55 °C (-40 ... 131 °F) | 4.2 | 5.2 |
| ASM170/CI | 1.2 | 2.4 | -40 ... 55 °C (-40 ... 131 °F) | 4.3 | 5.2 |

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