



DIN-RAIL INTERFACE ENCLOSURES

APPLICATION

Apollo has added two DIN-rail interface enclosures to its range of accessories. The enclosures can be used for housing intrinsically safe (IS) barriers or DIN-rail mounted interfaces.

The enclosures have a frosted polycarbonate lid through which LEDs can be viewed. A multi-purpose label that features a section for use with IS systems is supplied. For non-IS systems, the part referring to IS can simply be removed.

INTRINSICALLY SAFE CIRCUITS

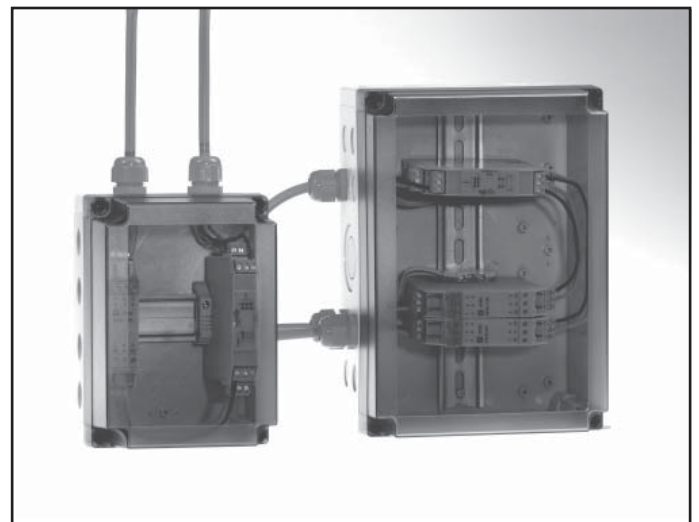
When using these enclosures with intrinsically safe systems, it is important that segregation be provided between the IS and non-IS circuits. A distance of at least 50mm must be preserved between live conducting parts of IS and other circuits.

If the enclosure is used as part of an IS circuit, then it must always be installed inside the safe area.
Never install these enclosures in the hazardous area.

Please refer to the diagrams overleaf for more information on how to configure units.

CAPACITY

The smaller enclosure (part no 29600-239) is suitable for one analogue addressable or two conventional IS circuits or up to four DIN-rail interfaces (dependent on the number of knock-outs required).



Part nos 29600-239 (left)
29600-240 (right)

The larger enclosure (part no 29600-240) can be used with up to five analogue addressable IS circuits (using the dual protocol translator, part no 55000-856) or up to eight conventional IS circuits or up to ten DIN-rail interfaces (dependent on number of knock-outs required).

For more information on the capacity of these enclosures, please refer to the table overleaf.



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Table 1 DIN-rail interface enclosure capacity

| Part Number | Dimensions L x W x H (mm) | 20mm knock-outs available | Maximum Capacity | | |
|-------------|------------------------------|------------------------------|----------------------|-----------------------------|---|
| | | | Standard DIN-Rail | Conventional IS DIN-Rail | Addressable IS DIN-Rail |
| 29600-239 | 180 x 125 x 130 | 12 (drillable) | 4 | 2* | 1 safety barrier & 1 x translator* |
| 29600-240 | 225 x 180 x 130 | 22 (pre-drilled) | 10 | 8* | 5 x safety barriers and 3 x translators (2 x dual and 1 x single)* |

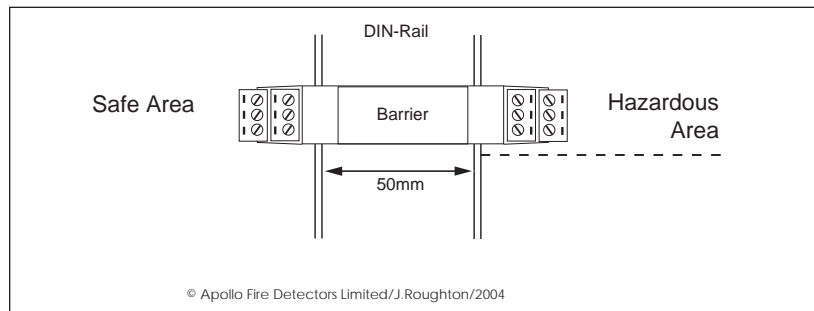


Fig 1 Conventional IS configuration

*Note: quantities calculated on minimum spacings required for IS wiring segregation.

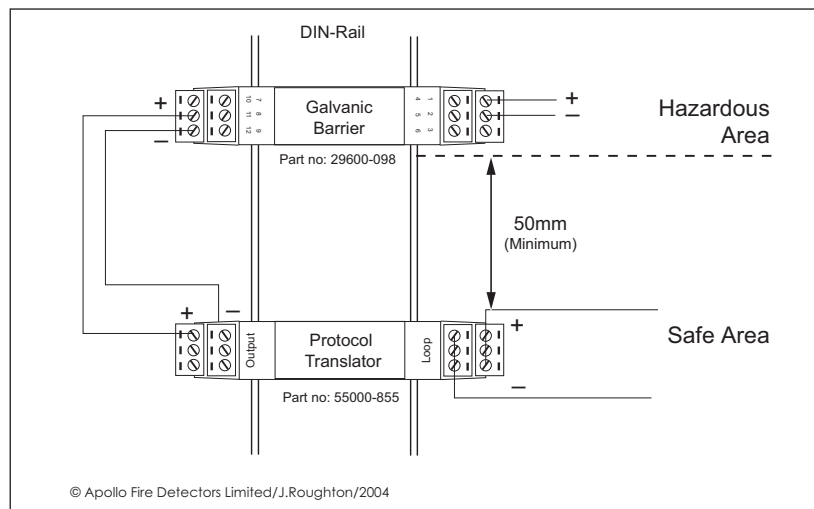


Fig 2 Analogue addressable IS configuration for 29600-239

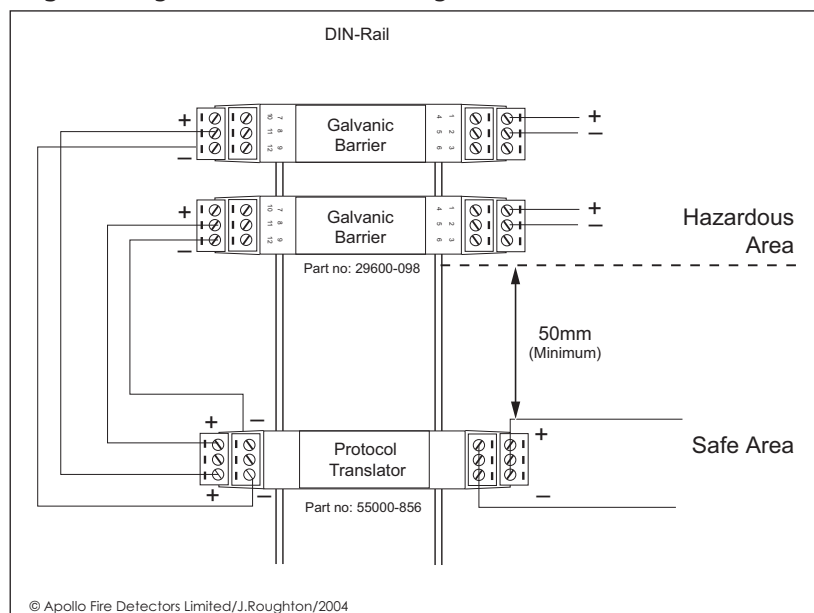


Fig 3 Analogue addressable IS configuration for 29600-240