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).

The larger enclosure (part no 29600-240) can be used with up to five analogue addressable IS circuits (using
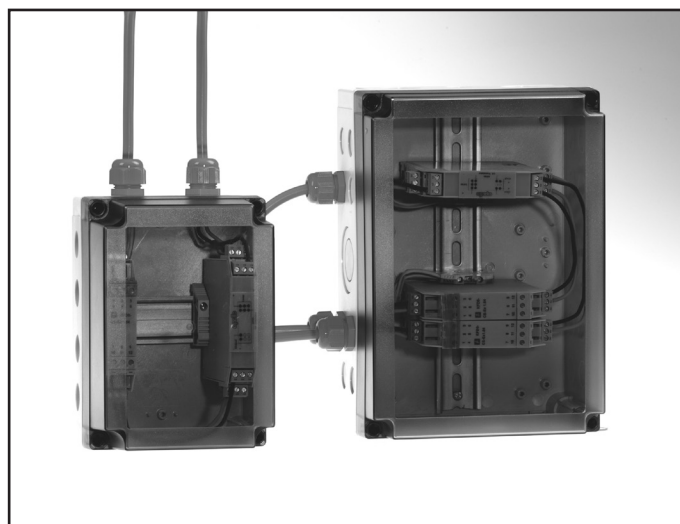
Part nos   29600-239 (left)
                 29600-240 (right)

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). The enclosure has an IP rating = IP67.

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

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)*

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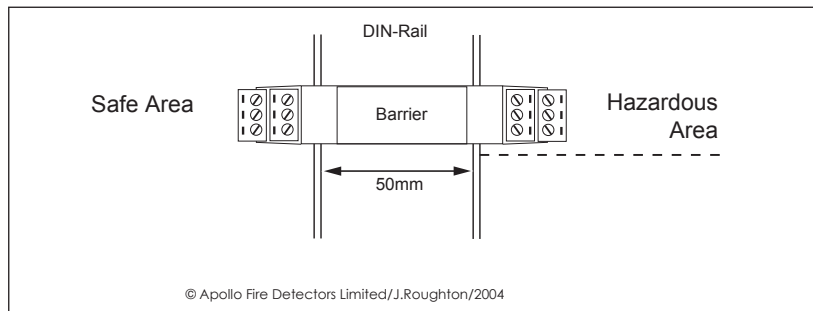

Fig 1 Conventional IS configuration
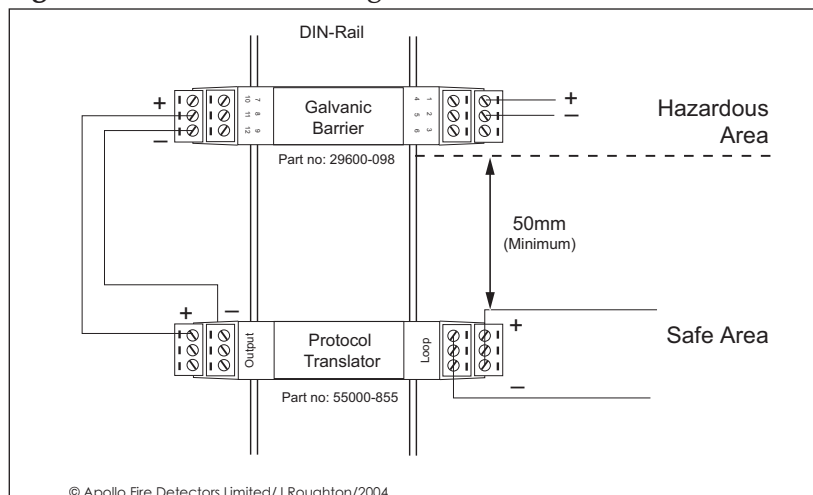
Fig 2 Analogue addressable IS configuration for 29600-239
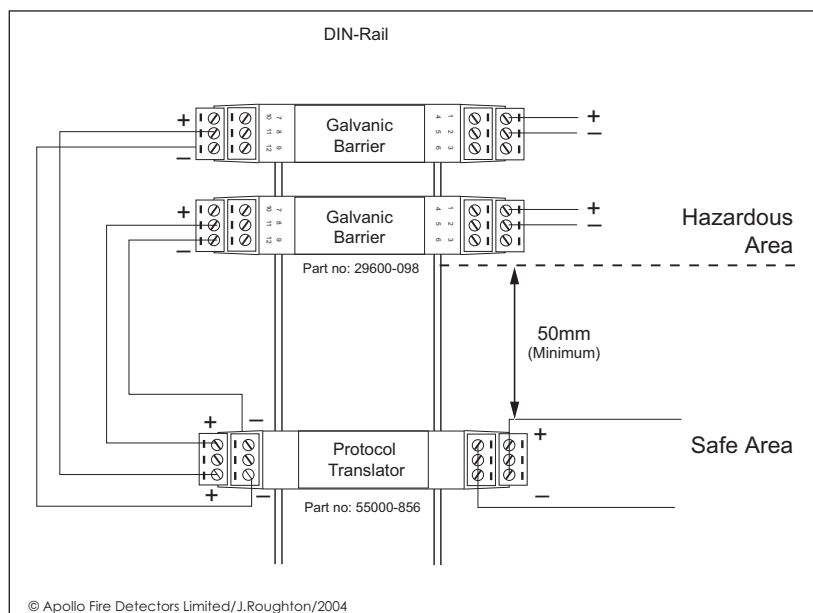
Fig 3 Analogue addressable IS configuration for 29600-240