Schneider Electric

DIN-Rail Interface Enclosures
4 units and 10 units

Instruction Sheet

R10051GB1
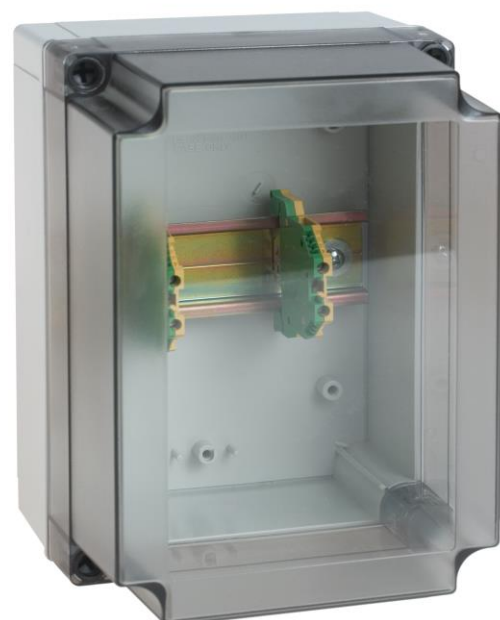
Schneider Electric Fire & Security Oy

Contents

1 DIN-Rail Interface Enclosures

The enclosures are available in two sizes 4 unit and 10 units. These can be used for housing intrinsically safe (IS) barriers or DIN-rail mounted modules.

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.

1.1 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.

1.2 Capacity

The smaller enclosure is suitable for one addressable or two conventional IS circuits or up to four DIN-rail interfaces (dependent on the number of knock-outs required).
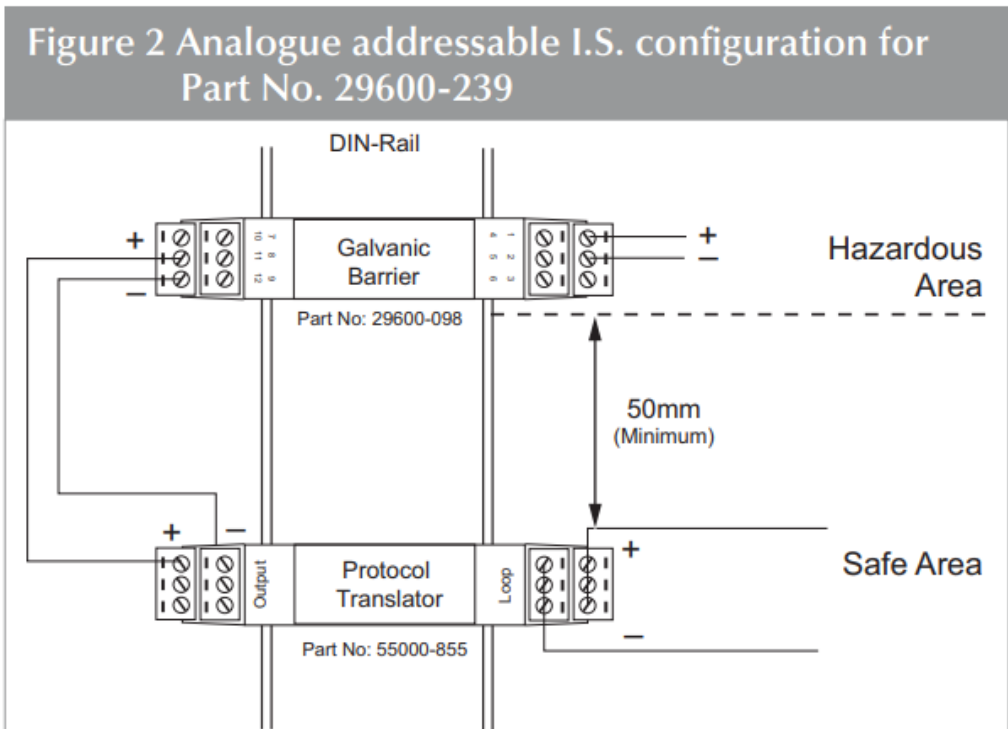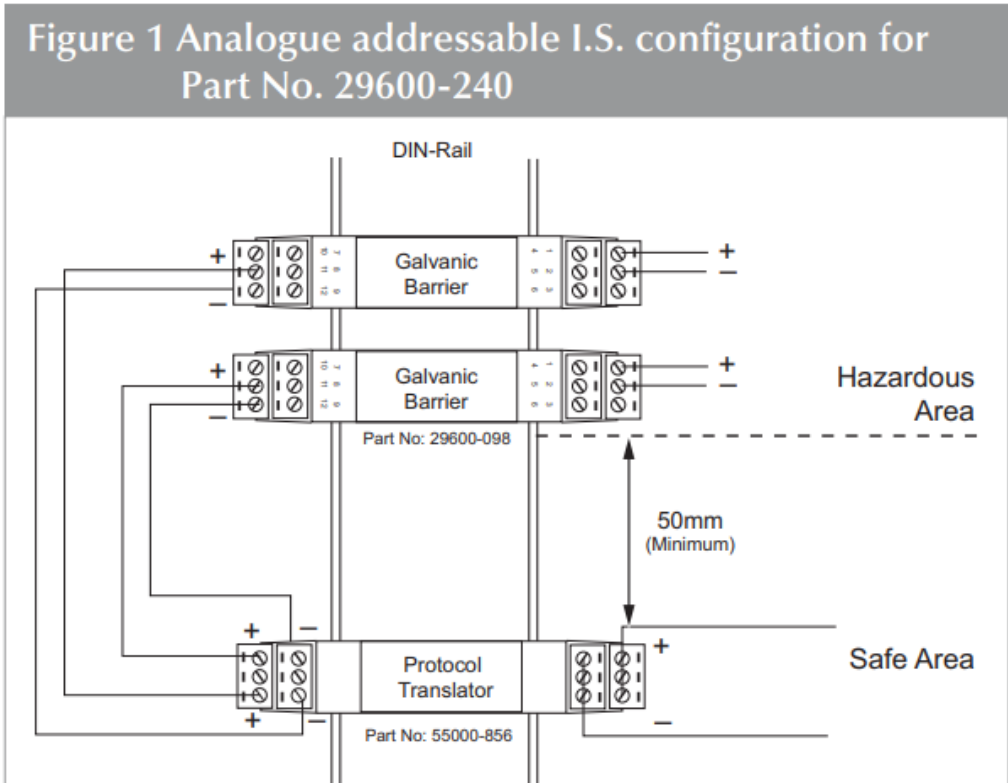
The larger enclosure can be used with up to five addressable IS circuits (using the dual protocol translator) or up to eight conventional IS circuits or up to ten DIN-rail interfaces (dependent on number of knock-outs required).

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

Din-Rail Interface Enclosure Capacity						
Product	20 mm Cable entries	Maximum Capacity				
		Large Din-rail	Small Din-rail	Din-rail	Conventional I.S. Din rail	Addressable I.S. Din-rail
Unit 4	12 (drillable)	1	2	4	2*	1 safety barrier & 1 x translator
Unit 10	22 (knock-outs)	2	5	10	8*	5 x safety barriers and 3 x translators (2x dual and 1x single) *

*Note: Quantities calculated on minimum spacing required for I.S. wiring segregation

1.3 Wiring

Figure 1 Analogue addressable I.S. configuration for Part No. 29600-240

DIN-Rail

+ Galvanic Barrier +
− −

+ Galvanic Barrier +
− −

Part No: 29600-098

Hazardous Area

50mm (Minimum)

+ − Protocol Translator +
+ − Safe Area
−

Part No: 55000-856

Figure 2 Analogue addressable I.S. configuration for Part No. 29600-239

DIN-Rail

+ Galvanic Barrier +
− −

Part No: 29600-098

Hazardous Area

50mm (Minimum)

+ − Output Protocol Translator Loop +
Safe Area
−

Part No: 55000-855

1.4　　　　Product Codes

DIN-RAIL Modules Enclosure	Product codes
Din-Rail interface 4 units (29600-239)	FFS0672 7460
Din-Rail Interface 10 units (29600-240)	FFS0672 7461