

# Isolator and Isolator Base



## Product Overview

<b>Product</b>	<b>Isolator</b>
<b>Part No.</b>	<b>55000-720</b>
<b>Product</b>	<b>Isolator Base</b>
<b>Part No.</b>	<b>45681-211</b>
<b>Digital Communication</b>	<b>XP95, Discovery and CoreProtocol® compatible</b>

## Compliance



Note: Part No. 45681-211 has LPCB approval only.

## Product Information

### Isolator

The Isolator is placed at intervals on the loop and ensures that, in the case of a short circuit, only the section between the isolators will be affected. When the short circuit is removed, the isolators automatically restore power and data to the isolated section. The Isolator can only be used with an Isolator base and will not fit a standard addressable base.

- Detects wiring short-circuits using patented technology
- Minimizes disruption from short circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors (or equivalent) may be installed between isolators

### Isolator Base

The Isolator Base is only suitable for use with the Isolator.

## Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

<b>Operating voltage</b>	17 V - 28 V dc (max dc voltage range)
<b>Digital communication</b>	XP95, Discovery and CoreProtocol compatible
<b>Modulation voltage</b>	5 - 9 V peak to peak
<b>Quiescent current</b>	35 µA
<b>Surge current</b>	0 mA
<b>Maximum current drawn</b>	8.5 mA
<b>Maximum line impedance</b>	50 Ω
<b>Operating temperature</b>	- 30 °C to +80 °C
<b>Humidity (no condensing or icing)</b>	10% to 93% RH
<b>Standards and approvals</b>	CPR, LPCB, VdS
<b>Dimensions</b>	100 mm diameter x 3.5 cm height
<b>Materials</b>	White flame-retardant polycarbonate

### Note:

For further details on Short-circuit isolation, please refer to PP2090 - Short-circuit isolation - available from [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

## EMC Directive 2014/30/EU

The Isolator and Isolator Base comply with the essential requirements of the EMC Directive 2014/30/EU, provided that they are used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

Conformity of the Isolator and the Isolator Base with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

## Construction Products Regulation 305/2011/EU

The Isolator complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

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