

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

PoE injector, 60 W, two RJ45 jacks, 10/100/1000 Mbps, DIN rail mounting, IP20



## Product description

The midspan injectors connect Ethernet devices without PoE (e.g., switches) to PoE-capable end devices (e.g., IP cameras). As power sourcing equipment (PSE), the injector supplies the required power to a powered device (PD) via the data cable. The injector and end device negotiate the electrical power requirements autonomously.

## Your advantages

- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- 10/100/1000 Mbps
- Mounting on a DIN rail
- Safe shield connection to ground potential

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2703007       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DNC351        |
| Product key                          | DNC351        |
| GTIN                                 | 4055626462950 |
| Weight per piece (including packing) | 394,5 g       |
| Weight per piece (excluding packing) | 249,2 g       |
| Customs tariff number                | 85044083      |
| Country of origin                    | TW            |

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



## Technical data

### Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 30.2 mm                                                                            |
| Height              | 130 mm                                                                             |
| Depth               | 120 mm                                                                             |

### Notes

Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Material specifications

|                  |         |
|------------------|---------|
| Color            | gray    |
| Housing material | Plastic |

### Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | vertical          |

### Interfaces

|                 |                                              |
|-----------------|----------------------------------------------|
| Basic functions | PSE/Midspan, compliant with IEEE 802.3af, at |
|-----------------|----------------------------------------------|

Data: Power over Ethernet

|                           |                                |
|---------------------------|--------------------------------|
| Serial transmission speed | 10/100/1000 Mbps               |
| Connection method         | RJ45 jack                      |
| No. of channels           | 1                              |
| Pin assignment            | 1:1                            |
| Transmission length       | 100 m (including patch cables) |
| Output nominal voltage    | 54 V DC (PoE)                  |
| Output power              | 60 W                           |

Data: Ethernet

|                   |            |
|-------------------|------------|
| Connection method | RJ45 CAT5e |
|-------------------|------------|

### Product properties

|      |                                                                              |
|------|------------------------------------------------------------------------------|
| MTTF | 133.8 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
|------|------------------------------------------------------------------------------|

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



## Functions

|                 |                                              |
|-----------------|----------------------------------------------|
| Basic functions | PSE/Midspan, compliant with IEEE 802.3af, at |
|-----------------|----------------------------------------------|

## Security functions

|                 |                                              |
|-----------------|----------------------------------------------|
| Basic functions | PSE/Midspan, compliant with IEEE 802.3af, at |
|-----------------|----------------------------------------------|

## Electrical properties

|                                                 |         |
|-------------------------------------------------|---------|
| Maximum power dissipation for nominal condition | 65.52 W |
|-------------------------------------------------|---------|

## Supply

|                          |                                           |
|--------------------------|-------------------------------------------|
| Supply voltage range     | 18 V DC ... 57 V DC (Ordinary locations)  |
|                          | 24 V DC ... 48 V DC (Hazardous locations) |
| Nominal supply voltage   | 24 V DC                                   |
|                          | 48 V DC                                   |
| Max. current consumption | 4.2 A                                     |
|                          | 2.73 A (24 V DC)                          |
|                          | 1.34 A (48 V DC)                          |
| Power consumption        | ≤ 75 W                                    |
| Protective circuit       | Reverse polarity protection               |

## Connection data

### Supply

|                                                                         |                       |
|-------------------------------------------------------------------------|-----------------------|
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm² ... 2.5 mm²  |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve    | 0.25 mm² ... 2.5 mm²  |
| Conductor cross-section, flexible                                       | 0.20 mm² ... 2.50 mm² |
| Conductor cross-section, rigid                                          | 0.20 mm² ... 2.50 mm² |
| Conductor cross-section AWG                                             | 20 ... 12             |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------|
| Degree of protection                    | IP20 (Non-certificated by UL)                                                          |
| Ambient temperature (operation)         | 0 °C ... 60 °C                                                                         |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                                                                       |
| Altitude                                | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
|                                         | ≤ 2000 m (with UL approval)                                                            |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)                                                         |

## Approvals

### CE

|                |              |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

### UL, USA/Canada

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



|                |                                       |
|----------------|---------------------------------------|
| Identification | Class I, Div. 2, Groups A, B, C, D T4 |
|----------------|---------------------------------------|

## Corrosive gas test

|                |                                  |
|----------------|----------------------------------|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |
|----------------|----------------------------------|

## EMC data

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
|-------------------------------|-------------------------------------------|

## Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

## Electrostatic discharge

|                    |                       |
|--------------------|-----------------------|
| Contact discharge  | ± 6 kV (Test Level 3) |
| Discharge in air   | ± 8 kV (Test Level 3) |
| Indirect discharge | ± 6 kV                |
| Comments           | Criterion B           |

## Electromagnetic HF field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

## Electromagnetic HF field

|                 |                                 |
|-----------------|---------------------------------|
| Frequency range | 80 MHz ... 3 GHz (Test Level 3) |
| Field intensity | 10 V/m                          |
| Comments        | Criterion A                     |

## Fast transients (burst)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

## Fast transients (burst)

|          |                     |
|----------|---------------------|
| Input    | ± 2.2 kV (1 minute) |
| Signal   | ± 2.2 kV (1 minute) |
| Comments | Criterion B         |

## Surge current load (surge)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

## Surge current load (surge)

|          |                                                                                       |
|----------|---------------------------------------------------------------------------------------|
| Input    | ± 0.5 kV                                                                              |
| Signal   | ± 1 kV (Data line, asymmetrical)<br>± 2 kV (I/O cable on field side only, asymmetric) |
| Comments | Criterion B                                                                           |

## Conducted interference

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

## Conducted interference

|                 |                     |
|-----------------|---------------------|
| Frequency range | 0.15 MHz ... 80 MHz |
| Comments        | Criterion A         |
| Voltage         | 10 V                |

# INJ 1010 - Injector



2703007

<https://www.phoenixcontact.com/nl/products/2703007>

## Emitted interference

|                       |                                  |
|-----------------------|----------------------------------|
| Standards/regulations | EN 61000-6-4                     |
| Comments              | Class A, industrial applications |

## Emitted interference

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Standards/regulations | EN 61000-6-3                                             |
| Comments              | Class B, domain of use: residential and small commercial |

## System properties

### Functionality

|                 |                                              |
|-----------------|----------------------------------------------|
| Basic functions | PSE/Midspan, compliant with IEEE 802.3af, at |
|-----------------|----------------------------------------------|

# INJ 1010 - Injector

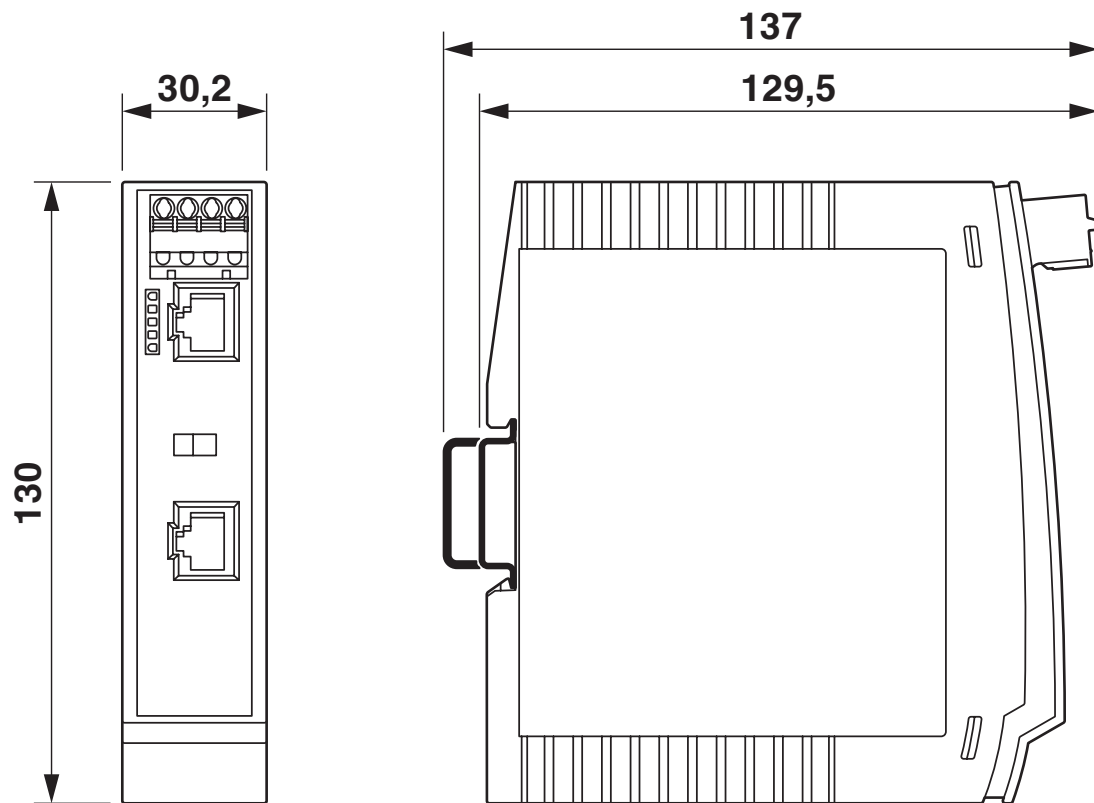
2703007

<https://www.phoenixcontact.com/nl/products/2703007>



## Drawings

Dimensional drawing

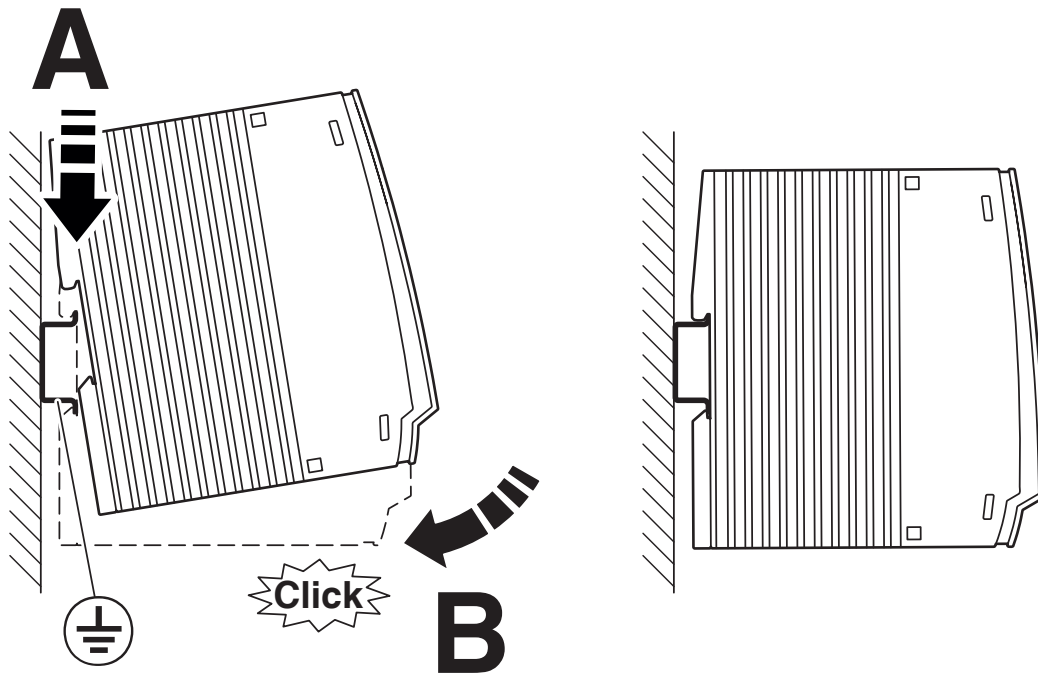


# INJ 1010 - Injector

2703007

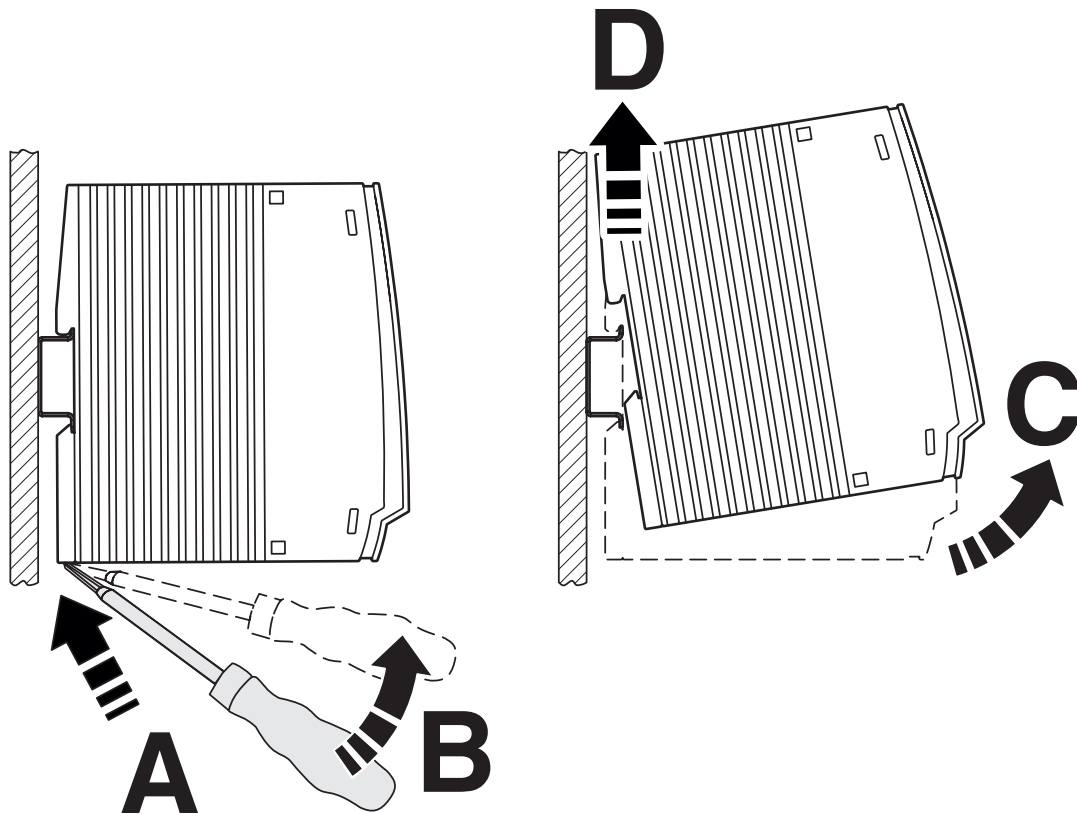
<https://www.phoenixcontact.com/nl/products/2703007>

Schematic diagram



Mounting

Schematic diagram



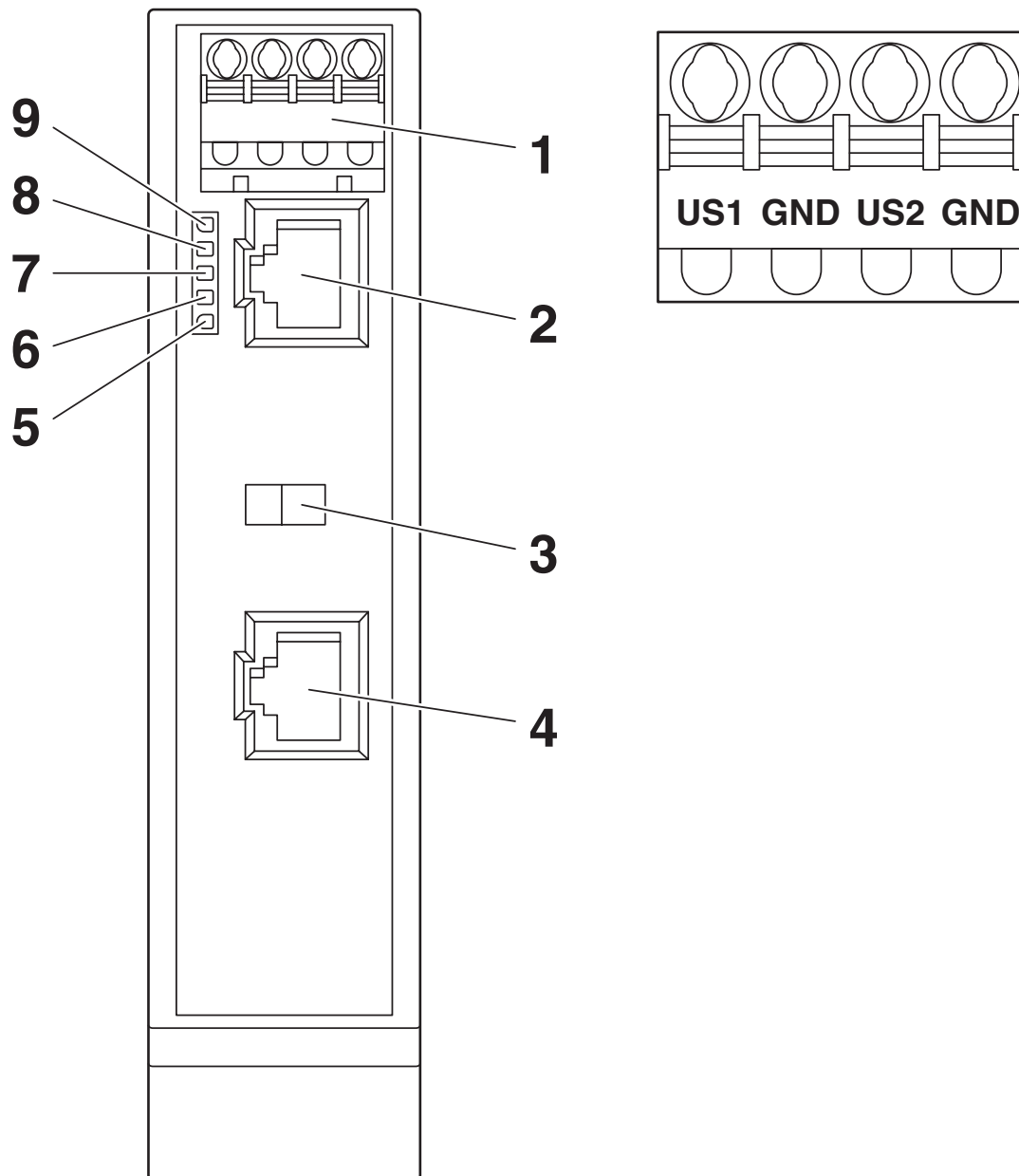
Removal

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>

Schematic diagram



Front view

# INJ 1010 - Injector



2703007

<https://www.phoenixcontact.com/nl/products/2703007>

## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/2703007>



**cULus Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170112 |
| ECLASS-15.0 | 19170112 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001128 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43223300 |
|-------------|----------|

# INJ 1010 - Injector

2703007

<https://www.phoenixcontact.com/nl/products/2703007>



## Environmental product compliance

### EU RoHS

|                                         |                         |
|-----------------------------------------|-------------------------|
| Fulfills EU RoHS substance requirements | Yes                     |
| Exemption                               | 15, 15(a), 7(a), 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-10                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 5cfa8794-8946-4963-86d9-c2e8a5c34b0b |

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.

Hengelder 56 6902 PA Zevenaar

Postbus 246 6900 AE Zevenaar

(0316) 59 17 20

[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)