



# Pepperl & Fuchs

## Z Series Zener Barriers



### Certification Information

- \* Certification Number BAS01ATEX7005
- \* Approved to II (1) GD [EExia] IIC
- \* Ingress Protection IP20
- \* Ambient Temperature Range -20°C to +60°C

### Features

- \* Polycarbonate housing
  - \* 1, 2 or 3 channel versions available
  - \* AC, positive DC and negative DC polarity versions available
  - \* 35mm DIN Rail mounting
  - \* Snap-On DIN rail ground/earth connection
  - \* 12.5mm wide
- \* **Must be installed in a safe area**  
\* **Must be connected to an Intrinsically Safe ground**

### Positive Polarity DC Zener Barriers

| Part Number | Number of Channels | Working Voltage @ 10µA | Maximum Series Resistance (Ω) | Fuse Rating (mA) | Maximum Supply Voltage (V) |
|-------------|--------------------|------------------------|-------------------------------|------------------|----------------------------|
| Z705        | 1                  | 0.9V DC @ 1µA          | 18.18                         | 250              | 4.8                        |
| Z715        | 1                  | 13V DC                 | 107                           | 100              | 13.6                       |
| Z722        | 1                  | 19V DC                 | 166                           | 50               | 20.1                       |
| Z728        | 1                  | 26.5V DC               | 327                           | 50               | 28                         |
| Z728.H      | 1                  | 26.5V DC               | 250                           | 80               | 28                         |
| Z755        | 2                  | 0.9V DC @ 1µA          | 18.18                         | 250              | 4.8                        |
| Z765        | 2                  | 13V DC                 | 107                           | 100              | 13.6                       |
| Z778        | 2                  | 26.5V DC               | 646                           | 50               | 28                         |
| Z779.H      | 2                  | 26.5V DC               | 250                           | 80               | 28                         |
| Z787        | 2                  | 26.5V DC               | 327                           | 50               | 28                         |
| Z787.H      | 2                  | 26.5V DC               | 250                           | 80               | 28                         |
| Z788        | 2                  | 26.5/6.5V DC           | 327/64                        | 50/50            | 28/9.1                     |

### AC Zener Barriers

| Part Number | Number of Channels | Working Voltage @ 10µA | Maximum Series Resistance (Ω) | Fuse Rating (mA) | Maximum Supply Voltage (V) |
|-------------|--------------------|------------------------|-------------------------------|------------------|----------------------------|
| Z915        | 1                  | 13V AC                 | 107                           | 100              | 14                         |
| Z954        | 3                  | 0.9V AC @ 1µA          | 27.27                         | 50               | 4.9                        |
| Z955        | 2                  | 0.9V AC @ 1µA          | 18.18                         | 250              | 4.7                        |
| Z960        | 2                  | 6.5V AC                | 64                            | 50               | 9.5                        |
| Z961        | 2                  | 6.5V AC                | 106                           | 100              | 8.1                        |
| Z964        | 2                  | 10V AC                 | 1033                          | 50               | 11.7                       |
| Z965        | 2                  | 13V AC                 | 115                           | 50               | 14.2                       |
| Z966        | 2                  | 10V AC                 | 166                           | 50               | 11.7                       |

Zone 0  
See Approvals

Zone 1  
See Approvals

Zone 2  
See Approvals

Zone 20  
See Approvals

Zone 21  
See Approvals

Zone 22  
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**Leeds**  
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