

Template:FMC920 Electrical characteristics

Electrical characteristics

| Characteristic description | Value | | |
|---|-------|-------------------|-----------|
| | Min. | Typ. | Max. Unit |
| Supply Voltage: | | | |
| Supply Voltage (Recommended Operating Conditions) | 10 | 30 | V |
| Digital Output (Open Drain grade): | | | |
| Drain current (Digital Output OFF) | | 120 | µA |
| Drain current (Digital Output ON, Recommended Operating 0.1 Conditions) | | 0.5 | A |
| Digital Input: | | 300 | mΩ |
| Digital Output (Open Drain grade): | | | |
| Input resistance (DIN1) | 47 | | kΩ |
| Input voltage (Recommended Operating Conditions) | 0 | Supply voltage | V |
| Input Voltage threshold (DIN1) | | 4 | V |
| Analog Input: | | | |
| Input voltage (Recommended Operating Conditions) | 0 | 30 | V |
| Input resistance | | 150 | kΩ |
| Measurement error on 12 V | | 3 | % |
| Additional error on 12 V | | 360 | mV |
| Measurement error on 30 V | | 3 | % |
| Additional error on 30 V | | 900 | mV |

✘ Analog Input error margin can increase if temperature varies.

Absolute maximum ratings

| Characteristic description | Value | | |
|---|-------|------|-----------|
| | Min. | Typ. | Max. Unit |
| Supply Voltage (Absolute Maximum Ratings) | -32 | | +32 V |
| Drain-Source clamp threshold voltage (Absolute Maximum Ratings), ($I_{\text{drain}} = 2 \text{ mA}$) | | | +36 V |

| | | |
|---|-----|-------|
| Digital Input Voltage (Absolute Maximum Ratings) | -32 | +32 V |
| Analog Input Voltage (Absolute Maximum Ratings) | -32 | +32 V |