

# Template:FMB209 Electrical characteristics

## Electrical characteristics

| Characteristic description                                             | Value |       |      |      |
|------------------------------------------------------------------------|-------|-------|------|------|
|                                                                        | Min.  | Typ.  | Max. | Unit |
| Supply Voltage:                                                        |       |       |      |      |
| Supply Voltage<br>(Recommended Operating Conditions)                   | 10    |       | 30   | V    |
| Digital Output (Open Drain grade):                                     |       |       |      |      |
| Drain current (Digital Output OFF)                                     |       |       | 120  | μA   |
| Drain current<br>(Digital Output ON, Recommended Operating Conditions) | 0.1   |       | 0.5  | A    |
| Static Drain-Source resistance (Digital Output ON)                     |       |       | 120  | mΩ   |
| Digital Input:                                                         |       |       |      |      |
| Input resistance (DIN1)                                                |       | 59.9  |      | kΩ   |
| Input resistance (DIN2, DIN3)                                          |       | 67.5  |      | kΩ   |
| Input voltage<br>(Recommended Operating Conditions)                    | 0     |       | 60   | V    |
| Input Voltage threshold (DIN1)                                         | 7.5   | 7.7   | 8    | V    |
| Input Voltage threshold (DIN2, DIN3)                                   | 2.5   | 2.7   | 3    | V    |
| Analog Input:                                                          |       |       |      |      |
| Input voltage<br>(Recommended Operating Conditions), Range 1           | 0     |       | 10   | V    |
| Input resistance, Range 1                                              |       | 120   |      | kΩ   |
| Input voltage<br>(Recommended Operating Conditions), Range 2           | 0     |       | 30   | V    |
| Input resistance, Range 2                                              |       | 146.7 |      | kΩ   |
| Output inner resistance                                                | 450   |       | 600  | mΩ   |
| Output current ( $U_{out} > 3.0$ V)                                    |       |       | 75   | mA   |
| Short circuit current ( $U_{out} = 0$ )                                |       |       | 75   | mA   |

 **Analog Input error margin can increase if temperature varies.**