

Template:FMB209 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 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 (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 (Recommended Operating Conditions), Range 1	0		10	V
Input resistance, Range 1		120		kΩ
Input voltage (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.