

Template:FM36 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)			300	mΩ
Digital Input:				
Input resistance (DIN1)	15			kΩ
Input resistance (DIN2, DIN3)	20			kΩ
Input resistance (DIN4)	120			kΩ
Input voltage (Recommended Operating Conditions)	0		Supply voltage	V
Input Voltage threshold (DIN1)		7.5		V
Input Voltage threshold (DIN2, DIN3, DIN4)		2.5		V
Analog Input:				
Input voltage (Recommended Operating Conditions), Range 1	0		10	V
Input resistance, Range 1		120		kΩ
Measurement error		0.47		%
Additional error		±17.3		mV
Input Voltage (Recommended Operating Conditions), Range 2	0		30	V
Input resistance, Range 2		150		kΩ
Measurement error		1.01		%
Additional error		±139	0	mV

✘ Analog Input error margin can increase if temperature varies.