

Digital outputs	
Number of outputs	8 (non-galvanically isolated, common ground L-)
Output voltage	L+ minus 2 V
Output current	Channels 1...3 and 5...7: 0.5 A at 60 °C Channels 4 and 8: 1 A at 60 °C (2 A at 50 °C)
Minimum load	2 mA for each channel
Internal voltage drop	max. 2 W at 2 A
Leakage current (with low level)	max. 1 mA at 2 V
Behavior with overload	The affected output is switched off and cyclically switched on again
Total output current	max. 7 A, upon overload, all outputs are switched off and cyclically switched on again

Table 28: Specifications for the Digital Outputs

Counter	
Number of counters	2 (non-galvanically isolated)
Inputs	3 on each (A, B, Z)
Input voltages High level (5 V) High level (24 V) Low level (5 V) Low level (24 V)	5 V and 24 V 4...6 V 13...33 V 0...0.5 V -3...5 V
Input currents	1.4 mA at 5 V 6.5 mA at 24 V
Input impedance	3.7 kΩ
Input line	max. 500 m, shielded, twisted pairs of wires
Counter resolution	24 bit
Min. pulse length	5 μs
Max. input frequency	100 kHz (at 5 V and 24 V input voltage)
Triggered	on negative edge
Edge steepness	1 V/μs
Pulse duty factor	1 : 1 (for 100 kHz)

Table 29: Specifications for the Counters

3.5.1 Product Data HIMatrix F35 011 (-20 °C)

The HIMatrix F35 011 model variant is intended for use at the extended temperature range of -20...+60 °C. The electronic components are coated with a protective lacquer.

HIMatrix F35 011 (-20 °C)	
Operating temperature	-20...+60 °C
Weight	1.2 kg

Table 30: Product Data F35 011 (-20 °C)