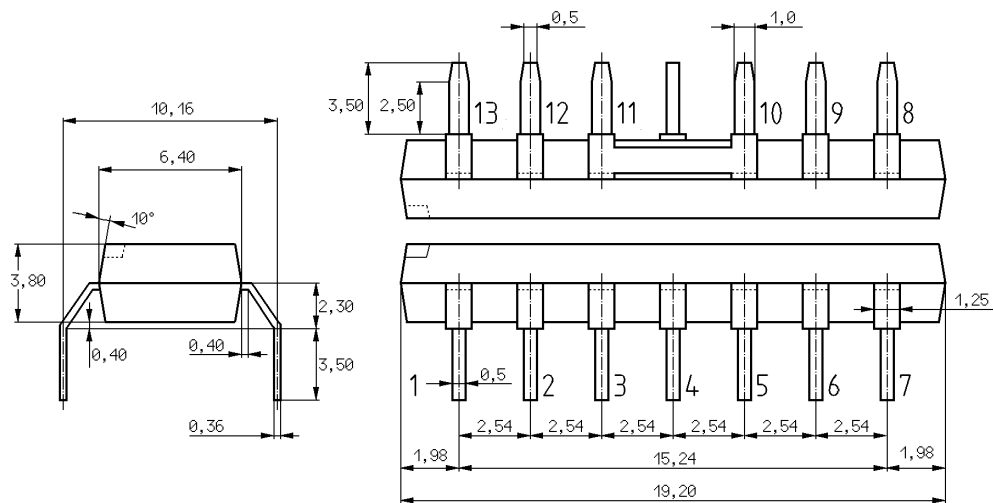


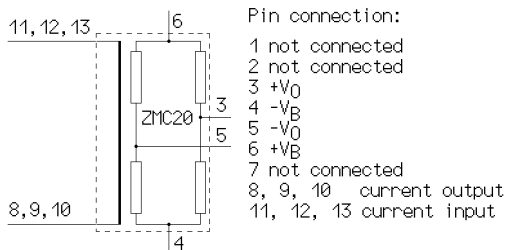
Current Sensor

ZMC20



package : modified DIL-14

1, 2, 7: not connected 3: +V_O 4: -V_B 5: -V_O 6: +V_B 8, 9, 10: current output 11, 12, 13: current input
V_O - output voltage V_B - supply voltage



FEATURES

- Package : mod. DIL-14
- A magnetic sensor chip (employing the magnetoresistive effect of thin film permalloy) measures the magnetic field generated by an internal current-carrying conductor
- measurable direct or alternating current I_M up to 20A
- supply voltage 12 V
- no auxiliary field H_X required
- it's possible to overload the conductor (between pin's 8,9,10 and 11,12,13) with 300A for 10 ms at T_{amb} = 20 °C

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol		Unit
Supply voltage	V_B	12	V
Isolation voltage	V_{ISOL}	2	kV
Measurable current	I_M	20	A
Operating temperature range	T_{amb}	-40 to +120	°C
Storage temperature range	T_{stg}	-65 to +120	°C

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25\text{ °C}$ unless otherwise stated)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions
Bridge resistance	R_{br}	1.2	1.7	2.2	$k\Omega$	
Offset voltage	V_{Off}	-	-	± 2	mV/V	
Open circuit sensitivity	S	-	0.25	-	(mV/V)/A	
Resistance of the conductor	R	-	0.7	-	$m\Omega$	
Operating frequency	f_{max}	-	-	100	kHz	
Temperature coefficient of open circuit sensitivity	T_C	-	-	-0.3	%/K	

Devices are identified by type on the body of the device

ZMC20 ZMC20

Ordering information:

ZMC20 in boxes (10 components per box)
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ZMC20 output voltage V_O (as a function of the supply voltage)

