HALL-Stromsensoren, Serie PW-ICS 1A...150A

Current Sensors isolated for DC, AC, pulsed, mixed currents

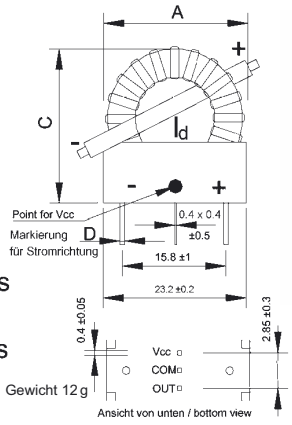
& Stromwächter / *over current switches* PW-ICS-SW 0.1...46A

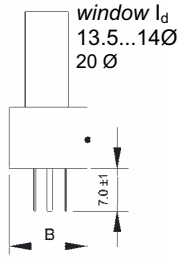
Features

- Isolated output 4kV
- Good linearity
- Low power consumption
- Excellent temp. stability

Applications

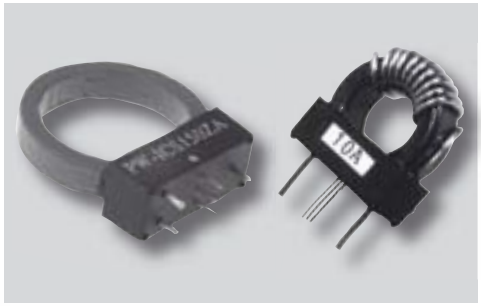
- Variable Drive Systems
- Switching Power Supplies
- UPS- & Solar Power
- Battery Supplied Systems

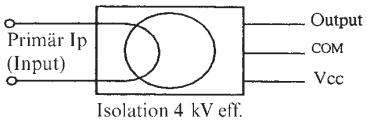




Primärleiter über Pins in PC-Board verlöten oder durch Fenster/Window führen

Pin-Abstand / L.S.
Std. 1.43±0.2mm (V_{cc}-Com-Out)
Opt. „B": 2.54±0.2mm (V_{cc}-Com-Out)

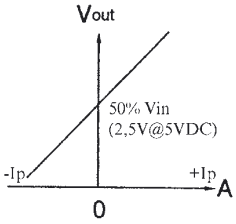




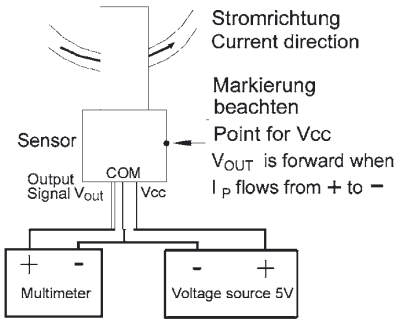
Spezifikationen / *Specifications*

Speisung / *Supply Voltage* Vcc (V_{in}).....	5 VDC (4.5V…10.5VDC)
Supply Current 5VDC (20°).....	7.2mA typ. (8.5mA max. bei 5VDC)
Offset / *Thermal drift* of V_{out}.....	± 0.06%/°C
Genauigkeit / *Accuracy*, Linearität.....	1% typ. bei 0... ± I_{PN}
Empfindlichkeits-Toleranz / *Sensitivity tol.*.	± 1% at I_{PN}
Bandbreite / *bandwidth*.....	0...50kHz / V_{cc} = 5VDC
Anstiegszeit / *rise time*.....	t_r < 5µsec / 90% I_p
Abfallzeit / *fall time*.....	t_f < 3µsec / 10% I_p
Offsetspannung / *offset voltage* V_o.....	2.5VDC (=50% V_{in}) ± 3% I_p = 0 Amp.
Ausgangsspannung /*output voltage*.....	2.5V ± 2VDC (0.5V...4.5VDC) at V_c = 5V, R_L =10kOhm
Prüfspannung / *test voltage*.....	4kV r.m.s. (50/60Hz 60 Sek.)
Betriebstemperatur / *operating temp.*	-40°C...+ 125°C

Charakteristik PW-ICS



Typ/*model*	Strombereich (A) *Current I_p nom*	Dimensionen (mm) A	B ±0.2	C	D	I_d
PW-ICS-1	**± 1A**	24	10.3	25	1	13.5
PW-ICS-3	**± 3A**	26	11	26	1.2	13.5
PW-ICS-5	**± 5A**	25	11	25	1.8	13.5
PW-ICS-8	**± 8A**	26	11	26	2	13.5
PW-ICS-10	**± 10A**	25	11	25	2	13.5
PW-ICS-25	**± 25A**	24	11	27	2.5	
PW-ICS-30	**± 30A**	24	11	27	2.5	
PW-ICS-50	**± 50A**	22	11	24	1	14
PW-ICS-100	**± 100A**	22	11	24	1	14
PW-ICS-100/2	**± 100A**	27	10.3	30	1	20
PW-ICS-150ZA	**± 150A**	30	10.3	34	1	20 *



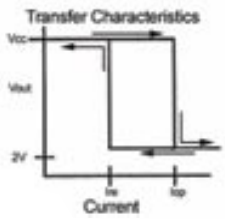
*Pin-Abstand/L.S. Vcc-Out = 5.08 ±0.3 (2.54+2.54)
Primär 2+1 = 3 Pins = Verdrehschutz

HALL-Stromwächter/*Detector* PW-ICS-SW

Over-Current Switches (Suffix="SW")

Reihe/range I_{op} (A)	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.75**	**1**	**2**	**3**	**4**	**5**	**46**
I_{max}(A)	1	1	2.5	2.5	5	5	8	8	10	10	10	
IR	0.06	0.13	0.2	0.26	0.32	0.55	0.73	1.75	2.6	3.5	4.3	40

Supply voltage 4.5V...24VDC/4.5mA typ 9mA max.
V_{out} (on) 2VDC typ.
V_{out} (off) = V_{cc}



Dimensionen & Design der Stromdetektoren Serie PW-ICS-SW wie oben

Bestellbeispiel: **PW-ICS-0.75-SW**
Ordering example: Detektor/switch für 0.75A

Material	nach UL-Card
Draht/*wire*	E201757
Gehäuse/*base*	E107536/UL94-V0
Harz/*Epoxy*	E218090

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