

## NA25A-P Current Transducer

### Applications:

For the electronic measurement of currents: AC, DC IMPL.,etc.,with galvanic isolation between the primary (high power) and the secondary (electronic) circuits.

### Main technical data:

1. Primary normal current  $I_{PN}$ : 25A r.m.s
2. Primary current, measuring range  $I_p$ : 0~±50A
3. Measuring resistance:

	RMmin	RMmax
With ±15V @ ±25A max:	54 ohm	360 ohm
4. Secondary normal current: 25mA rms
5. Conversion ratio: 1-2-3-4:1000
6. Supply voltage (±5%): ±12V~±15V
7. Current consumption: 12mA+ Secondary output current
8. Isolation test: Between the primary circuit to the secondary circuit (±.M):3kV/50Hz/1min



### Accuracy – Dynamic performance data:

1. Accuracy @  $I_{PN}$ ,  $T_A=+25^{\circ}\text{C}$ , @ ±15V: ±0.5%
2. Non-linearity: ±0.2%
3. Offset current: ±0.15mA(@+25°C)
4. Residual current @  $I_p=0$ ,  $T_A=+25^{\circ}\text{C}$ , after an overload of  $3xI_p$ : ±0.2mA
5. Thermal drift: ±0.6mA(-40°C~+85°C)
6. Response time: not more than 1us
7.  $dI/dt$  accurately followed: > 50A/us
8. Frequency Bandwidth (-1dB): DC 0~200 kHz

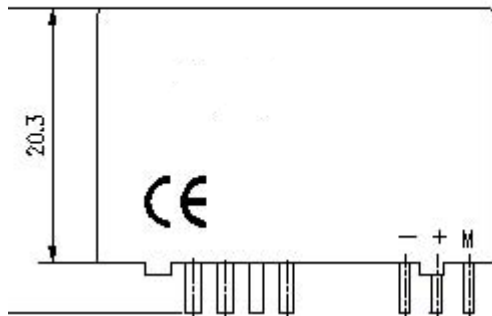
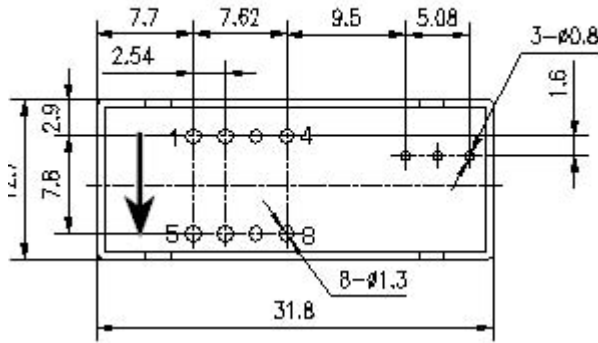
### General data:

1. Operating temperature: -40°C~+85°C
2. Storage temperature: -40°C~+90°C
3. Secondary coil resistance: not more than 66 ohm
4. Weight: 17g
5. Standards: EN 50178

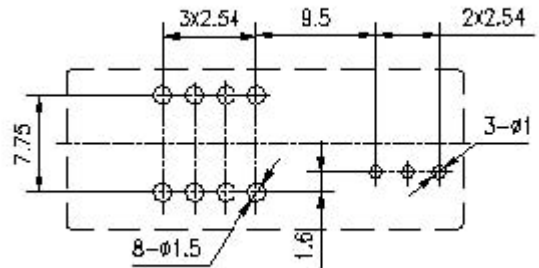
### Features:

1. Hall effect measuring principle
2. Galvanic isolation between primary and secondary circuit
3. Insulated plastic case made of white PPO recognized according to UL 94-V0
4. The whole current transducer comply with RoHS Directive completely

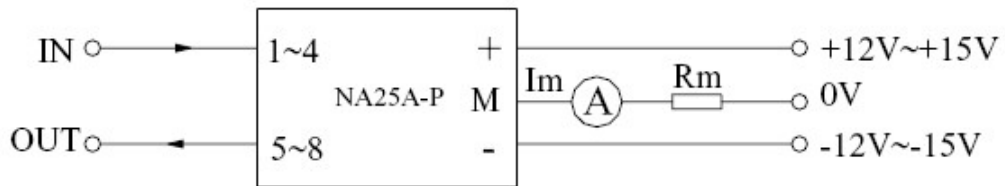
**Dimension:**

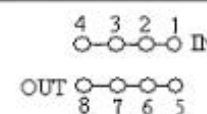
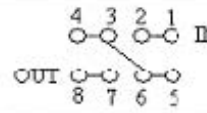
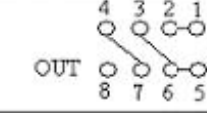
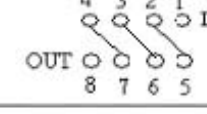


**PCB drilling dimensions**



**Connection:**



Number of primary turns	Primary current		Nominal output current $I_m$ [mA]	Turn ratio $K_N$	Recommended connections
	nominal $I_{PN}$ [A]	maximum $I_P$ [A]			
1	25	70	25	1:1000	
2	12	35	24	2:1000	
3	8	24	24	3:1000	
4	6	12	24	4:1000	

Note: In order to compliance to RoHS Directive, the previous NA25A-P in blue was replaced by this updated NA25A-P with REV. A1 in white beginning from June, 2006. Furthermore, the old NA25A-P in blue will not be produced any more.