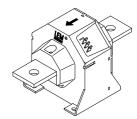
For the electronic measurement of currents : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

YEARS CE

	ectrical data								
PN	Primary nominal r.m.s. current				500				
P	Primary current, measuring range				0 ± 1200			/	
R ^M	Measuring resistance @			T _A	= 70°C	T	= 85°	С	
				R _M	min R _{M ma}	R _{M mir}	, R _{M ma}	x	
	with ± 15 V	@ ± 5	500 A _{ma}	, O	65	0	60	ſ	
		@±8	300 A _{ma}	, O	15	0	12	S	
	with ± 24 V	@ ± 5	500 A _{ma}	, O	145	15	140	S	
		@ ± 12	200 A _{ma}	, 0	22	15	18	2	
SN	Secondary nominal r.m.s. current					100 m			
K _N	Conversion ratio				1 :	1:5000			
'c	Supply voltage (± 5 %)				± ′	± 15 24			
;	Current consumption				30	$30(@\pm 24V) + I_{s} mA$			
d	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn					6			
, b	R.m.s. rated voltage ¹⁾ , safe separation				17	1750		,	
-	basic isolation					00		,	
Ac	ccuracy - Dynamic	perform	nance	data					
(_G	Overall accuracy @ I _{PN}	, T _A = 25°C)		± (D.6		%	
)	Linearity				< (D.1		%	
					ΙT	yp ľ	Max		
`	Offset current @ $I_{p} = 0$	$\mathbf{T}_{A} = 25^{\circ}\mathrm{C}$				±	- 0.4	m/	
-	Offset current @ $\mathbf{I}_{P} = 0$ Thermal drift of \mathbf{I}_{O}	, T _A = 25°C		C + 85°C) ±		± 0.4 ± 0.5		
т	Thermal drift of \mathbf{I}_{o}		- 10°0	C + 85°0	2 ±	0.3 ±		mA	
- DT		% of I _{P max}	- 10°0	C + 85°0	- 1	0.3 = ±		m/ µ:	
o ot r li/dt	Thermal drift of I _o Response time ²⁾ @ 90	% of I _{P max}	- 10°0	C + 85℃	< '	0.3 = ±	± 0.5	m A بی A/µs	
סד li/dt	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe	% of I _{P max}	- 10°0	C + 85°C	< '	0.3 ± 1 50	± 0.5	m A بی A/µ:	
ा fi/dt G	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth) % of I _{P max} ed (- 1 dB)	- 10°C	C + 85°C	< ' > { D(0.3 ± 1 50	± 0.5	m/ μ: Α/μ: kH	
fi/dt	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth) % of I _{P max} ed (- 1 dB) nperature	- 10°C	C + 85°C	< 7 > 5 DC	0.3 ± 1 50 C 150	± 0.5 0 85	m/ µ: A/µ: kH	
li/dt G	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten) % of I _{P max} ed (- 1 dB) nperature erature	- 10°C	C + 85°C	< 7 > 1 - 1 - 2	0.3 ± 1 50 C 150 0 + 8 5 + 7	± 0.5 0 85	m/ باء A/باء kH °(
от r li/dt	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten Ambient storage temp) % of I _{P max} ed (- 1 dB) nperature erature	- 10°C		 < 1 - 1 - 2 - 65 	0.3 ± 1 50 C 150 0 + 8 5 + 7	± 0.5 0 85	۳۸ باء ۸/باء kH °(°(
fi/dt	Thermal drift of I _o Response time ²⁾ @ 90 di/dt accurately followe Frequency bandwidth eneral data Ambient operating ten Ambient storage temp) % of I _{P max} ed (- 1 dB) nperature erature	- 10°C	T _A = 70°C	 < 1 - 1 - 2 - 65 	0.3 ± 1 50 C 150 0 + 8 5 + 7	± 0.5 0 85	m / m / A/به kH: °(°(

$I_{_{PN}} = 500 \text{ A}$



Features

- Closed loop (compensated) current transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0.

Advantages

- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- High immunity to external interference
- Current overload capability.

Applications

- AC variable speed drives and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.

Notes : ¹⁾ Pollution class 2. With a non insulated primary bar which fills the through-hole

- ²⁾ With a di/dt of 100 A/µs
- ³⁾ A list of corresponding tests is available

Tel: (02) 8228-0658

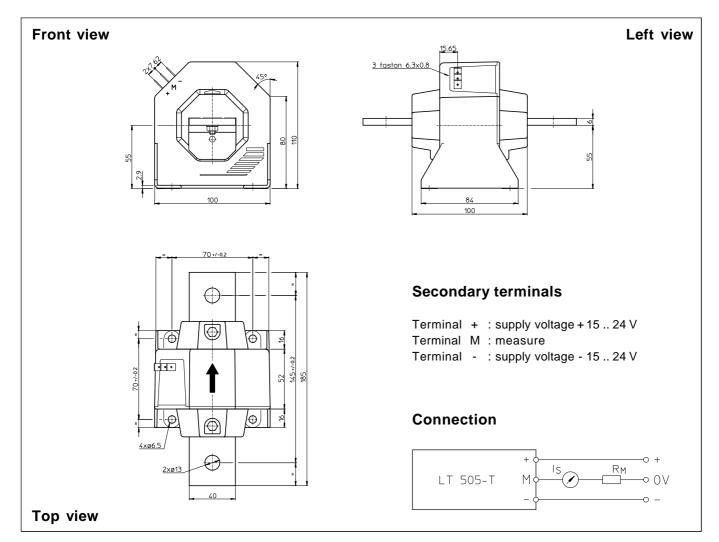
980716/2

Tope Co., Ltd.

Fax: (02) 8228-0659 http://www.sensor.com.tw

or.com.tw e-mail: tope@ms1.hinet.net

Dimensions LT 505-T (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Connection of primary
- Connection of secondary

 \pm 0.5 mm 4 holes \varnothing 6.5 mm or by the primary bar 2 holes \varnothing 13 mm Faston 6.3 x 0.8 mm

Remarks

- I_s is positive when I_p flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed 100°C.
- This is a standard model. For different versions (supply voltages, turns ratios, unidirectional measurements...), please contact us.