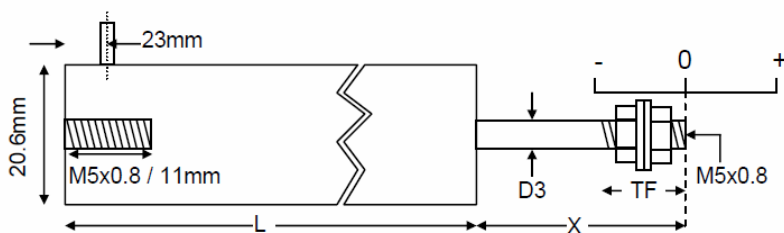


Trasduttore di Spostamento – Serie LVDT DCTH



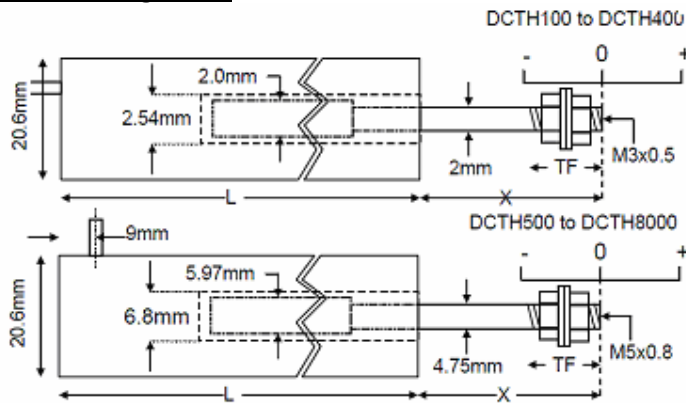
- Amplificatore interno
- Alto numero di cicli
- Acciaio inossidabile
- Risoluzione infinita
- Uscita 4-20 mA/Volt
- Accuratezza (best) 0.1% F.S.
- Range minimo $\pm 2.5\text{mm}$
- Range massimo $\pm 470\text{mm}$
- Lunghezza 64mm
- Diametro 20.6mm

Versione guidata



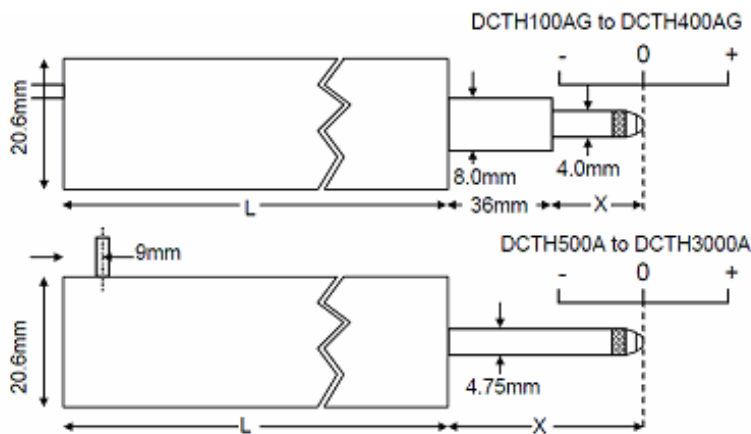
Type	Range	Linearity error (% F.S.)	L	X	D3	Total weight	TF	Inward over-travel	Outward over-travel
DCTH500C	$\pm 12.5\text{mm}$	$< \pm 0.5 / \pm 0.25 / \pm 0.1$	194mm	38mm	4.75mm	340g	15mm	10mm	12mm
DCTH1000C	$\pm 25\text{mm}$	$< \pm 0.5 / \pm 0.25 / \pm 0.1$	222mm	63mm	4.75mm	398g	15mm	13mm	10mm
DCTH2000C	$\pm 50\text{mm}$	$< \pm 0.5 / \pm 0.25 / \pm 0.1$	336mm	76mm	4.75mm	511g	15mm	10mm	14mm
DCTH3000C	$\pm 75\text{mm}$	$< \pm 0.5 / \pm 0.25 / \pm 0.1$	448mm	114mm	4.75mm	625g	15mm	24mm	15mm
DCTH4000C	$\pm 100\text{mm}$	$< \pm 0.5 / \pm 0.25 / \pm 0.1$	494mm	127mm	4.75mm	767g	15mm	8mm	14mm
DCTH6000C	$\pm 150\text{mm}$	$< \pm 0.5 / \pm 0.25$	684mm	178mm	4.75mm	1.0kg	15mm	12mm	17mm
DCTH8000C	$\pm 200\text{mm}$	$< \pm 0.5 / \pm 0.25$	875mm	254mm	4.75mm	1.4kg	32mm	22mm	25mm
DCTH10000C	$\pm 250\text{mm}$	$< \pm 0.5 / \pm 0.25$	1067mm	305mm	4.75mm	1.7kg	27mm	34mm	35mm
DCTH15000C	$\pm 375\text{mm}$	$< \pm 0.5$	1473mm	406mm	4.75mm	2.2kg	19mm	13mm	13mm
DCTH18500C	$\pm 470\text{mm}$	$< \pm 0.5$	1740mm	508mm	6.00mm	2.6kg	27mm	5mm	33mm

versione non guidata



Type	Range	Linearity error (% F.S.)	L	X	Total weight	Armature weight	TF	Inward over-travel
DCTH100	±2.5mm	<±0.5/±0.25/±0.1	64mm	33mm	74g	1.4g	18mm	11.6mm
DCTH200	±5mm	<±0.5/±0.25/±0.1	64mm	33mm	74g	1.8g	18mm	9.0mm
DCTH300	±7.5mm	<±0.5/±0.25/±0.1	64mm	33mm	74g	1.8g	18mm	6.5mm
DCTH400	±10mm	<±0.5/±0.25	64mm	33mm	74g	1.9g	18mm	3.9mm
DCTH500	±12.5mm	<±0.5/±0.25/±0.1	175mm	43mm	213g	17g	15mm	16mm
DCTH1000	±25mm	<±0.5/±0.25/±0.1	203mm	69mm	270g	23g	15mm	22mm
DCTH2000	±50mm	<±0.5/±0.25/±0.1	317mm	81mm	369g	37g	15mm	16mm
DCTH3000	±75mm	<±0.5/±0.25/±0.1	430mm	119mm	497g	55g	15mm	29mm
DCTH4000	±100mm	<±0.5/±0.25/±0.1	475mm	132mm	625g	71g	15mm	16mm
DCTH6000	±150mm	<±0.5/±0.25	666mm	183mm	852g	100g	15mm	16mm
DCTH8000	±200mm	<±0.5/±0.25	856mm	259mm	1.3kg	140g	29mm	27mm

Versione ritorno a molla



Type	Range	Linearity error (% F.S.)	L	X	Total weight	Spring force at X	Spring rate	Inward over-travel	Outward over-travel
DCTH100AG	±2.5mm	<±0.5/±0.25/±0.1	64mm	12mm	83g	1.0N	0.9N/cm	2.2mm	1.3mm
DCTH200AG	±5mm	<±0.5/±0.25/±0.1	64mm	13mm	83g	1.0N	0.8N/cm	0.3mm	1.3mm
DCTH300AG	±7.5mm	<±0.5/±0.25/±0.1	64mm	18mm	83g	1.5N	0.6N/cm	1.4mm	1.3mm
DCTH400AG	±10mm	<±0.5/±0.25	64mm	22mm	83g	1.8N	0.8N/cm	1.3mm	1.3mm
DCTH500A	±12.5mm	<±0.5/±0.25/±0.1	182mm	38mm	227g	1.3N	0.2N/cm	1.0mm	13mm
DCTH1000A	±25mm	<±0.5/±0.25/±0.1	210mm	63mm	284g	2.0N	0.3N/cm	3.0mm	10mm
DCTH2000A	±50mm	<±0.5/±0.25/±0.1	324mm	75mm	398g	1.8N	0.2N/cm	8mm	14mm
DCTH3000A	±75mm	<±0.5/±0.25/±0.1	436mm	114mm	511g	6.0N	0.4N/cm	15mm	15mm

Specification		
V output	Supply voltage (dual)	$\pm 12V$ to $\pm 20V$ dc, 30mA
	Supply voltage (single, must be floating)	24V to 40V dc, 30mA
	Change in output for change in supply	5mV/V
	Output load	10kOhms
	Output ripple	30mV (peak-to-peak)
	Electrical output bandwidth	200Hz
	Output impedance	2 Ohms
4-20mA output ($\geq \pm 12.5$ mm)	Operating temperature range	-50°C to 80°C
	Supply voltage	12V to 36V dc
	Max loop resistance	(Supply voltage-11) x 50 Ohms
	Output ripple	50uA (peak-to-peak)
	Electrical output bandwidth	200Hz
Both outputs	Operating temperature range	-10°C to 70°C
	Temperature coefficient (zero)	$\pm 0.01\%$ F.S. /°C (typical)
	Temperature coefficient (span)	$\pm 0.03\%$ F.S. /°C (typical)
	Electrical termination	2m (integral cable) Longer available to order.

Output details (outputs 1 and 2 selected using different connections)				
Option code	Note	- position	0	+ position
Standard	Output 1	0V	5V	10V (+0% - 5%)
Standard	Output 2	-5V (+0% - 5%)	0V	+5V (+0% - 5%)
TM0627	Output 1	10V (+0% - 5%)	5V	0V
TM0627	Output 2	+5V (+0% - 5%)	0V	-5V (+0% - 5%)
TM0321A	$\geq \pm 12.5$ mm	4mA	12mA	20mA
TM0321B	$\geq \pm 12.5$ mm	20mA	12mA	4mA