

MDCT

INDUCTIVE SENSOR LINEAR MOTION

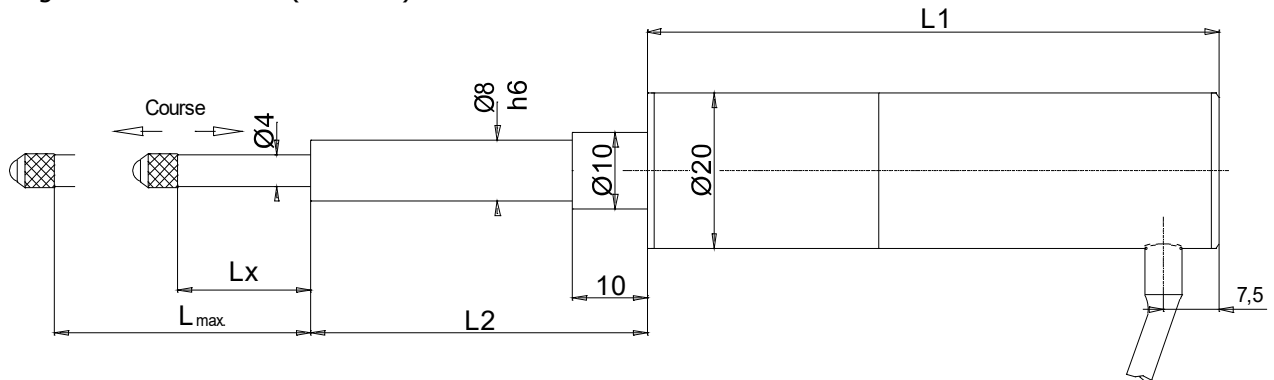
The MDCT sensors are available with a stroke range from 2 to 50 mm. The conditioner is embedded, so nothing else is required. The power supply is $\pm 15V$ or $+24VDC$ and MDCT series have the most common output interfaces (0-20mA, $\pm 10V$)

Sizes (mm)					
Type	MDCT2	MDCT5	MDCT10	MDCT20	MDCT50
Stroke	± 1	± 2.5	± 5	± 10	± 25
L1	76	87	101	140	185
L2	45	45	45	45	83
L max (± 1 mm)	30.5	30.5	30.5	30.5	69.5
Lx (± 1.5 mm) from zero	26	23.5	20	16.5	40

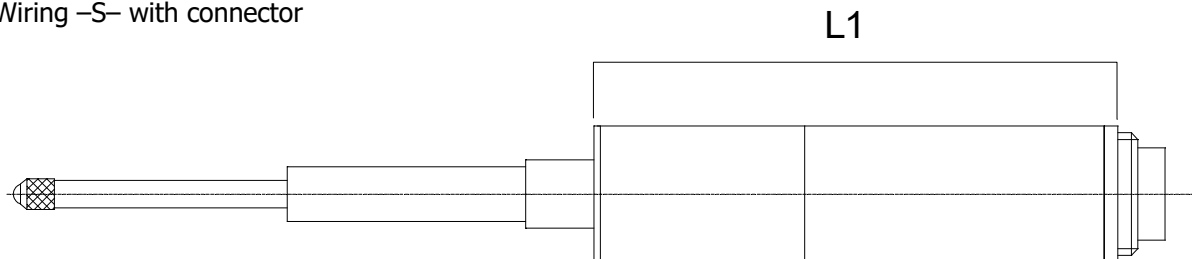


- Stroke from 2 to 50 mm
- IP65, IP67 optional
- Embedded conditioner

Wiring -K- with cable 1 m (standard)



Wiring -S- with connector



Electrical specifications	MDCT2	MDCT5	MDCT10	MDCT20	MDCT50
Stroke (± 0.5 mm)	± 1	± 2.5	± 5	± 10	± 25
Independant linearity (%)	$< \pm 0.5$ (< 0.25 opt)				
Supply voltage (V DC)	$\pm 15 / 24$ ($\pm 5\%$)				
Supply current (mA)	$\pm 40 / 50$				
Output signal	± 5 V / $0-5$ V / $0-10$ V / $0-20$ mA / $4-20$ mA				
Load resistance	> 100 k Ω for Voltage output, < 250 Ω for Current output				
Hysteresis (%)	< 0.01				
TempCo (%/ $^{\circ}$ C)	0.05				
Mechanical specifications					
Weight (g)	130/110	145/130	165/145	215/195	285/265
Magnetic material	mumetal Nickel plated steel				
Environmental specifications					
Service temperature ($^{\circ}$ C)	0 ... +60				
Storage temperature ($^{\circ}$ C)	-30 ... +80				
Shocks	100 G / 2 ms				
Vibrations	10 G / 2 Hz .. 2kHz				
Sealing	IP65 / IP67 opt (except version KD)				

Pin	Connector		Colour	Cable	
	Supply ± 15 V	Supply 24 V		Supply ± 15 V	Supply 24 V
1	-15 V	Gnd supply	Yellow	-15 V	N.C.
2	+15 V	+24 V	Brown	+15 V	+24 V
3	Gnd signal	Gnd signal	White	Gnd signal	Gnd signal
4	Output	Output	Green	Output	Output
5	Gnd supply	Gnd supply	Grey	Gnd supply	Gnd supply
Shield	Shield	Shield	Shield	Shield	Shield

Options	Output signals		
	Ref.	Supply	Output
Special cable (standard = 1 m)	1505	± 15 V	0 – 5 V
Connector with 5 pins (opt –S)	1510	± 15 V	0 – 10 V
Better linearity (< 0.25 %)	1555	± 15 V	± 5 V
Through hole allowing rear access of the core (KD)	1520	± 15 V	0 – 20 mA
Connector 5 pins straight type SKG IP67	1542	± 15 V	4 – 20 mA
Connector 5 pins angled type SKW IP67	2405	24 V	0 – 5 V
Special touch point	2410	24 V	0 – 10 V
Mounting flange	2455	24 V	± 5 V
Note : 0 = rod out, +10V (20mA ...)= rod in	2420	24 V	0 – 20 mA
	2442	24 V	4 – 20 mA

Example of order code				
TYPE	Stroke	Wiring	Output	Linearity
MDCT	5	S S=Connector K=cable KD=rear hole	2410	0.5% 0.25%

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