

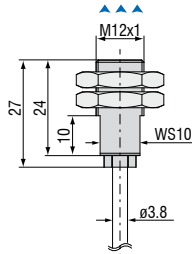
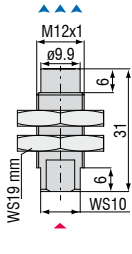
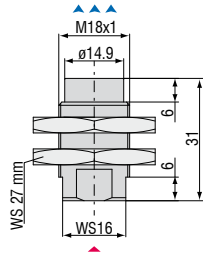
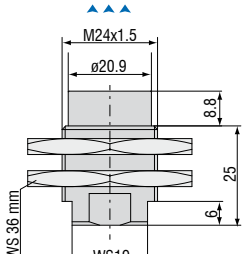
eddyNCDT ECT Eddy current displacement sensors

Equipped with Embedded Coil Technology (ECT), eddyNCDT ECT sensors provide outstanding precision, signal stability and robustness. An innovative sensor design enables high temperature operation and long-term stability. ECT sensors are suitable for even the harshest of application conditions. The sensors are used, for example, in environments with temperatures up to 180°C and electromagnetic fields. The ES2/ECT/HT350 model is available for use in extremely high temperatures. It includes an integrated glass fibre cable and is suitable for ambient temperatures up to 350°C.



Features

- Extreme temperature stability
- Outstanding long-term stability
- Excellent sensor reproducibility
- Robust design, pressure and dirt-resistant

				
Sensor type	ES2/ECT/HT350	EU3/ECT	EU6/ECT	EU8/ECT
Article number	2601123	2600062	2600063	2600064
Shielded	•			
Unshielded		•	•	•
Measuring range	2mm	3mm	6mm	8mm
Offset	0.2mm	0.3mm	0.6mm	0.8mm
Linearity ¹⁾	≤ ±4μm	≤ ±6μm	≤ ±12μm	≤ ±16μm
Resolution (static 25 Hz) ¹⁾	0.1μm	0.15 μm	0.3μm	0.4μm
Resolution (dynamic 25 kHz) ¹⁾	≤4μm	≤6μm	≤12μm	≤16μm
Temperature stability ¹⁾	≤ ±300nm/°C	≤ ±450nm/°C	≤ ±900nm/°C	≤ ±1.2μm/°C
Temperature range (operation)	-40 to 350 °C	-40 to 180 °C	-40 to 180 °C	-40 to 180 °C
Protection class	IP 67 (front) / IP 50 (rear side)	IP 67	IP 67	IP 67
Pressure resistance	250bar (static, front)	20bar (static, front)	20bar (static, front)	20bar (static, front)
Connection cable	ECx	ECx	ECx	ECx
Dimensions	M12x1, 27mm	M12x1, 31mm	M18x1, 31mm	M24x1.5, 34mm
Weight	35 g	10 g	30 g	50 g
Material	Titanium	Stainless steel, PPS	Stainless steel, PPS	Stainless steel, PPS
Connection type	integrated glass fibre cable 0.5m with triaxial connector	Sealed triaxial connector	Sealed triaxial connector	Sealed triaxial connector

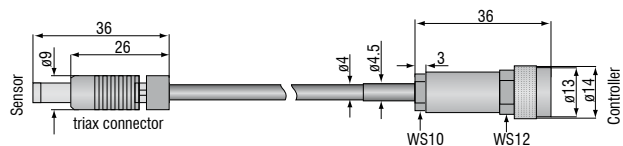
¹⁾ Data refer to operation with controller DT3300

▲ Connector side

▲▲▲ Measurement direction

eddyNCDT ECT sensors

ECx sensor cable, length is selectable up to $x \leq 15\text{m}$



ECx/90 Cordon de capteur avec 90°-connecteur coudé, longueur

