



ST403 EDDY CURRENT SENSORS

| Sensor model | | U05 | S05 | U1 | S1 | S2 | U3 | S4 | U6 | S6 | U8 | U15 | U22 | U40 | U80 |
|---|---------------|--|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|-------|-------|-------|
| Signal Conditioning Electronics | | DT320 Dt 320-SM DT 321-SM | | DT 310 DT 310-SM DT 311-SM | | | | | | | | DT 350 DT 350-SM DT 351-SM | | | |
| Measuring range | mm | 0.5 | 0.5 | 1 | 1 | 2 | 3 | 4 | 6 | 6 | 8 | 15 | 22 | 40 | 80 |
| | inch | 0.02 | 0.02 | 0.04 | 0.04 | 0.08 | 0.12 | 0.16 | 0.24 | 0.24 | 0.32 | 0.6 | 0.87 | 1.57 | 3.15 |
| Offset distance non-ferromagnetic | mm | 0.025 | 0.025 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.8 | 1.5 | 2.2 | 4 | 8 |
| | inch | 0.001 | 0.001 | 0.004 | 0.004 | 0.008 | 0.012 | 0.016 | 0.024 | 0.024 | 0.032 | 0.060 | 0.088 | 0.160 | 0.320 |
| Offset distance ferromagnetic | mm | 0.05 | 0.05 | 0.2 | 0.2 | 0.4 | 0.6 | 0.8 | 1.2 | 1.2 | 1.6 | 3 | 4.4 | 8 | 16 |
| | inch | 0.002 | 0.002 | 0.008 | 0.008 | 0.016 | 0.024 | 0.032 | 0.048 | 0.048 | 0.064 | 0.120 | 0.176 | 0.320 | 0.640 |
| Linearity $\leq \pm 0.2\%$ FSO | μm | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 12 | 12 | 16 | 30 | 44 | 80 | 160 |
| | mil | 0.04 | 0.04 | 0.08 | 0.08 | 0.16 | 0.24 | 0.32 | 0.5 | 0.5 | 0.64 | 1.2 | 1.7 | 3.2 | 6.3 |
| Static resolution $\leq \pm 0.01\%$ FSO | μm | 0.05 | 0.05 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.8 | 1.5 | 2.2 | 4 | 8 |
| | mil | 0.002 | 0.002 | 0.004 | 0.004 | 0.008 | 0.012 | 0.016 | 0.024 | 0.024 | 0.032 | 0.060 | 0.088 | 0.160 | 0.320 |
| Dynamic resolution $\leq \pm 0.2\%$ FSO | μm | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 12 | 12 | 16 | 30 | 44 | 80 | 160 |
| | mil | 0.04 | 0.04 | 0.08 | 0.08 | 0.16 | 0.24 | 0.32 | 0.5 | 0.5 | 0.64 | 1.2 | 1.7 | 3.2 | 6.3 |
| Frequency response | | 100 kHz (-3dB) | | | | | | | | | | 50 kHz (-3dB) | | | |
| Temperature range Sensors and cables | | -50 to 150 °C / -60 to 300 °F | | | | | | | | | | | | | |
| Temperature Compensation range | | 10 to 90 °C / 50 to 190 °F | | | | | | | | | | | | | |
| Temperature stability of sensors | | $\leq \pm 0.02\%$ FSO/°C • $\leq \pm 0.011\%$ FSO/°F | | | | | | | | | | | | | |
| Temperature range Electronics | | 10 to 50 °C / 50 to 125 °F | | | | | | | | | | | | | |
| Temperature stability of electronics | | 0.05% FSO/°C • 0.028 FSO/°F | | | | | | | | | | | | | |
| Signal output | | Standard: 0 - 10 V / Option I: 4 - 20 mA | | | | | | | | | | | | | |
| Power supply models DT 3X0 | | ± 15 VDC | | | | | | | | | | | | | |
| Power supply models DT 3X1 | | 230 VAC resp. 115 VAC | | | | | | | | | | | | | |
| Electromagnetic compatibility | | acc. EN 50081-2 / EN 50082-2 | | | | | | | | | | | | | |