



More Precision

induSENSOR // Linear inductive displacement sensors



Accessories and connection possibilities

induSENSOR MSC

Accessories for MSC7401 / MSC7602 / MSC7802

Connection cables

- PC7400-6/4 Supply and output cable, 6 m
- PC5/5-IWT Supply and output cable, 5 m (only MSC7401 / MSC7802)
- IF7001 Single-channel USB/RS485 converter for MSC7xxx
- MSC7602 connector kit



MSC7602 connector kit

Service

Connection, adjustment and calibration including manufacturer certificate

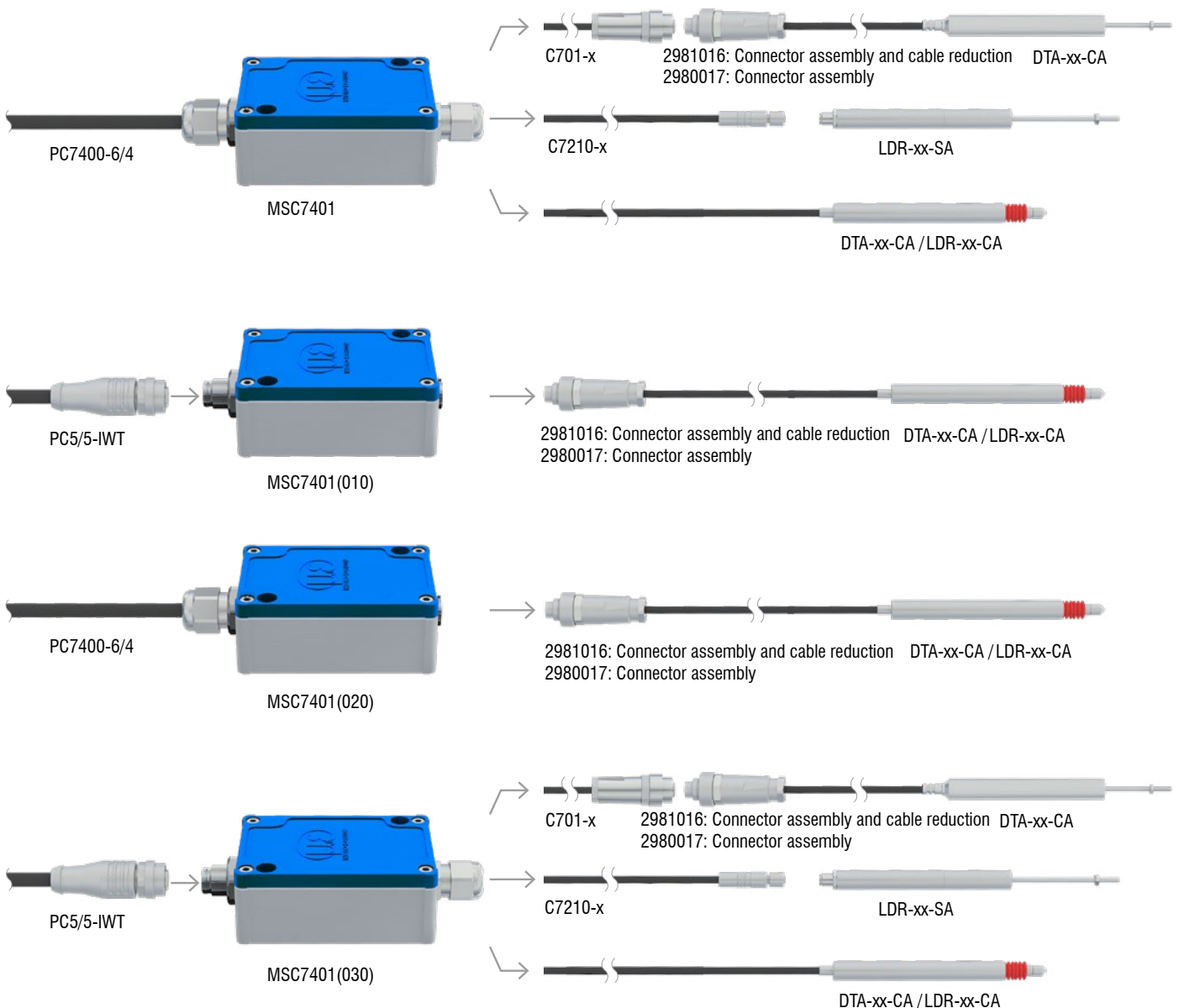
Interface modules

- IF2035-EIP DIN rail interface module for Ethernet/IP (multi-channel)
- IF2035-PROFINET DIN rail interface module for PROFINET (multi-channel)
- IF2035-EtherCAT DIN rail interface module for EtherCAT (multi-channel)
- IF1032/ETH Interface module for Ethernet/EtherCAT (single channel) (only MSC7401 / MSC7802)

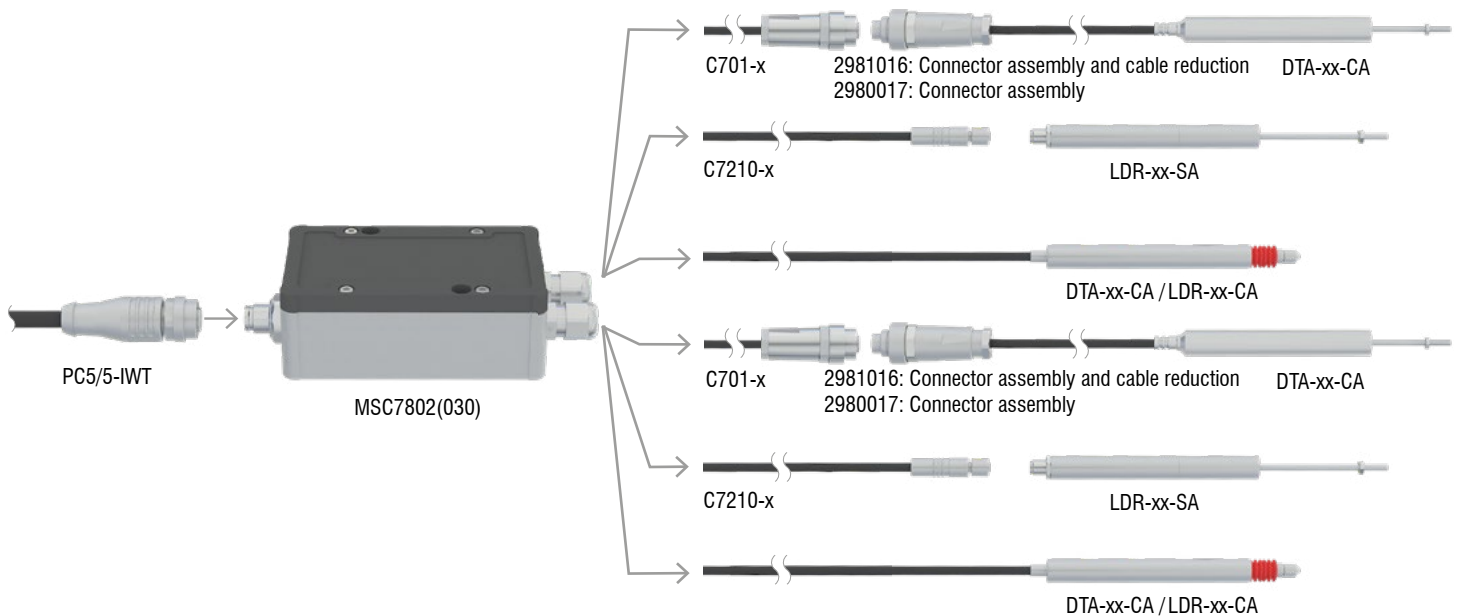
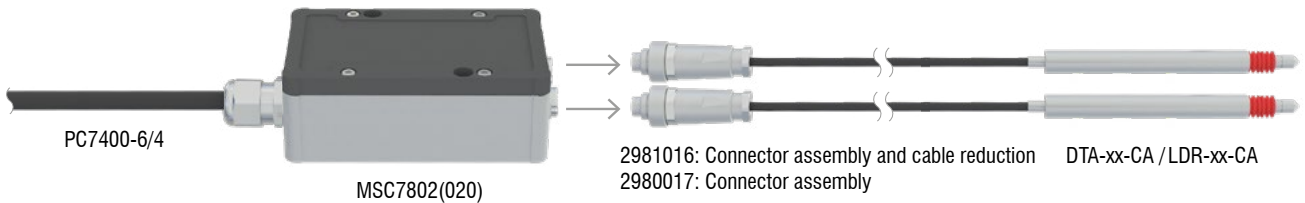
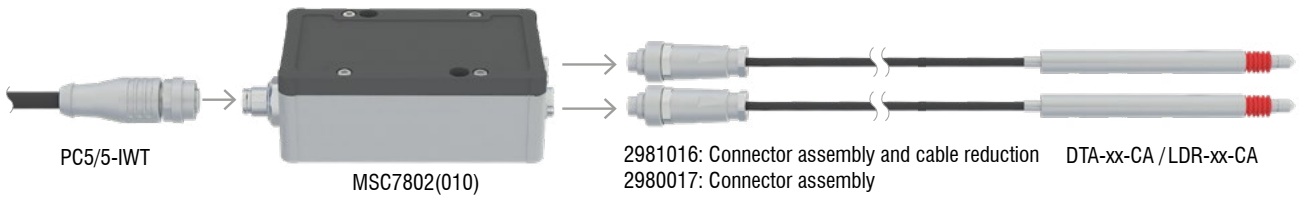
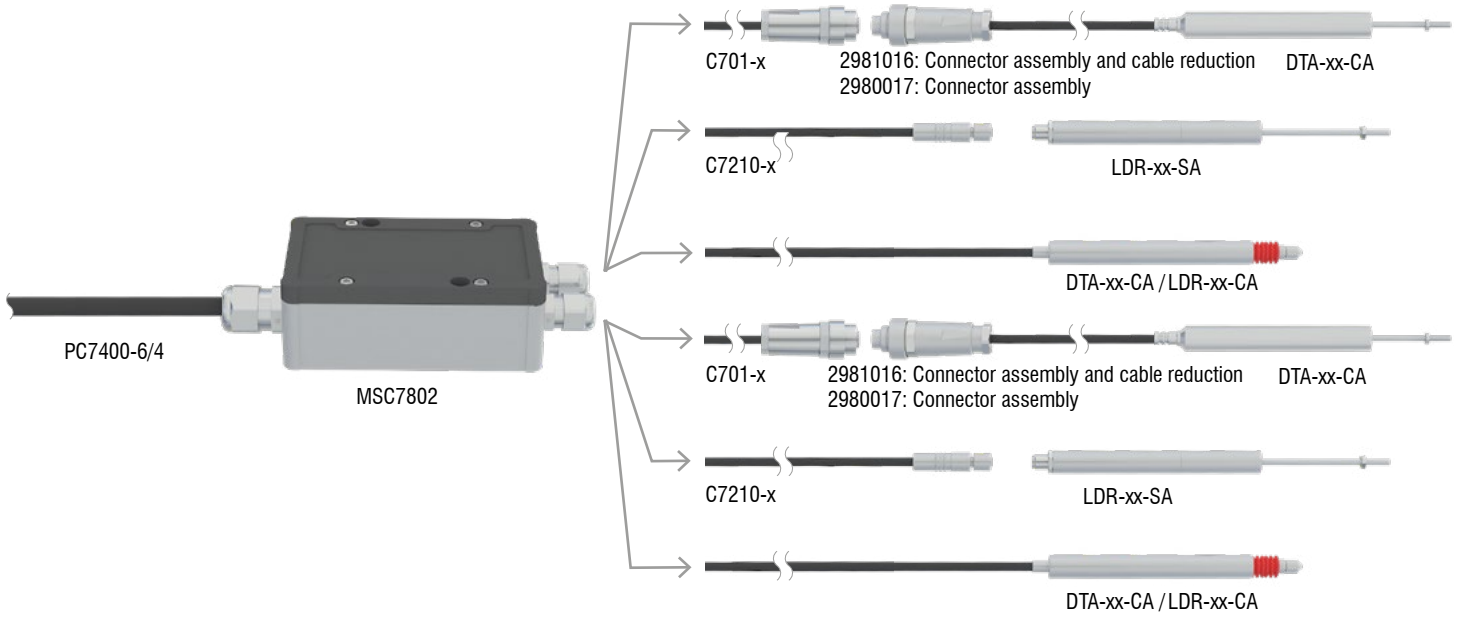
Power supply units

- PS2401/100-240/24V/1A Universal power supply unit with open ends

Connection options MSC7401








Connection options MSC7802



Robust long-stroke sensors for hydraulics & pneumatics

induSENSOR EDS

-  Measuring ranges from 75 ... 630 mm
-  Linearity $\pm 0.3\%$ FSO
-  Integrated controller
-  High resistance to pressure and oil, maintenance free
-  Short offset ranges

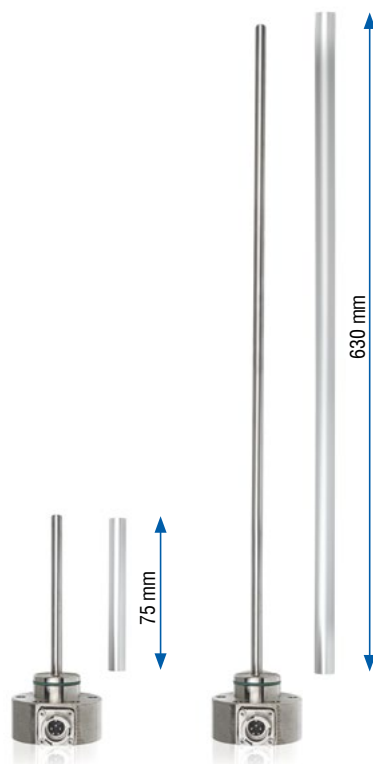


induSENSOR EDS long-stroke sensors are designed for industrial use in hydraulic and pneumatic cylinders for displacement and position measurements of pistons or valves, e.g., to measure

- displacement, position, gap
- deflection
- movement, stroke
- filling level, immersion depth and spring travel

The sensor elements of the EDS series are protected by a pressure resistant stainless steel housing. The sensor controller and signal processing are completely integrated in a sensor flange.

An aluminum tube is used as target, which is guided over the sensor rod in a non-contact and wear-free manner. Due to their robust, constructional design, the EDS long-stroke sensors have proven invaluable for integration into hydraulic and pneumatic cylinders and for position monitoring in harsh industrial environments. Due to the eddy current principle applied, no permanent magnets need to be mounted inside the cylinder.



induSENSOR EDS sensors impress with an optimal ratio of compact design and large measuring range. Due to their small offset, the measuring range starts very close to the flange.

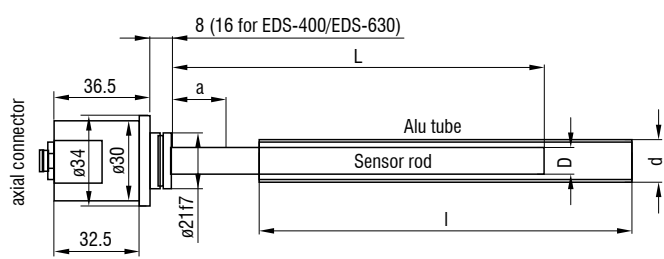


Model	EDS-	75 mm	100 mm	160 mm	200 mm	250 mm	300 mm	400 mm	500 mm	630 mm
Series		S	S, F	S, F	S, F	S, F	S, F	S, F	S	S, F
Measuring range		75 mm	100 mm	160 mm	200 mm	250 mm	300 mm	400 mm	500 mm	630 mm
Resolution		0.038 mm	0.05 mm	0.08 mm	0.1 mm	0.125 mm	0.15 mm	0.2 mm	0.25 mm	0.315 mm
Frequency response (-3dB)		150 Hz								
Measuring rate		600 Sa/s								500 Sa/s
Linearity	≤ ±0.3 % FSO	≤ ±0.23 mm	≤ ±0.3 mm	≤ ±0.48 mm	≤ ±0.6 mm	≤ ±0.75 mm	≤ ±0.9 mm	≤ ±1.2 mm	≤ ±1.5 mm	≤ ±1.89 mm
Temperature stability		≤ 200 ppm FSO/K								
Supply voltage		18 ... 30 VDC								
Max. current consumption		40 mA								
Analog output ^[1]		4 ... 20 mA (load 500 Ohm)								
Connection	S series	7-pin M9 screw/plug connection (Binder); axial, radial on request (see accessories for connection cable)								
	F series	5-pin bayonet screw plug connection; radial output (see accessories for connection cable)								
Temperature range	Storage	-40 ... +100 °C								
	Operation	-40 ... +85 °C								
Pressure resistance		450 bar (front)								
Shock (DIN EN 60068-2-27)		40 g / 6 ms in 3 axes, 1000 shocks each 100 g / 6 ms radial, 3 shocks each 300 g / 6 ms axial, 3 shocks each								
Vibration (DIN EN 60068-2-6)		±2.5 mm / 5 ... 44 Hz, 10 cycles each ±23 g / 44 ... 500 Hz, 10 cycles each								
Protection class (DIN EN 60529) ^[2]		IP65 (F series) / IP67 (S series)								
Material		Stainless steel (housing); aluminum (measuring tube)								

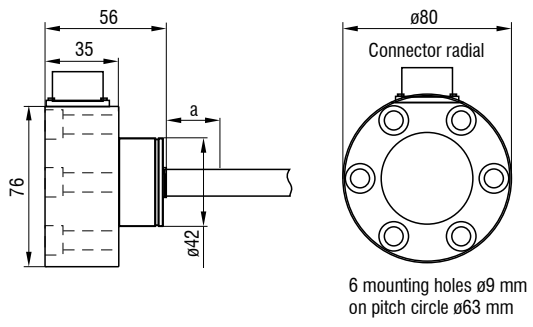
^[1] Optional voltage output (1 ... 5 V) with connection cable C703-5/U for EDS, S series

^[2] Models with plug connection only with suitable and connected mating plug

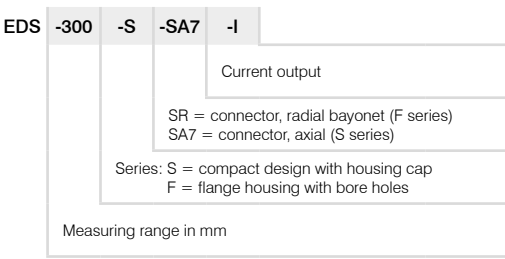
Model S



Model F



Article designation



Measuring ranges	Sensor rod		Aluminum tube		Offset
	L	D	l	d	
75	110	10	110	16	15
100	140	10	140	16	20
160	200	10	200	16	20
200	240	10	240	16	20
250	290	10	290	16	20
300	340	10	340	16	20
400	450	12	450 (S) 460 (F)	18 (S) 26 (F)	25
500	550	12	550	18	25
630	680	12	680 (S) 690 (F)	18 (S) 26 (F)	25

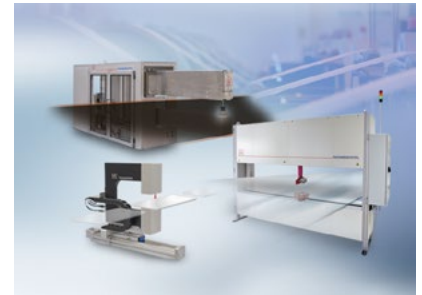
Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



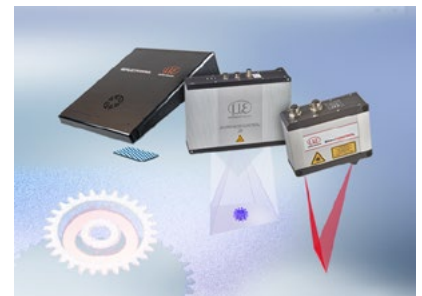
Measuring and inspection systems for quality assurance



Optical micrometers, fiber optics, measuring and test amplifiers



Color recognition sensors, LED Analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection