



MSW /S

Measurement Steering Wheel

for

Non-Contact Measurement of Steering Speed and Angle

50 Nm version for automobiles
250 Nm version for light trucks

For the acquisition of:

- Steering torque (2 outputs = FS, 0.2 x FS)
- Steering angle = 1250°
- Steering angle speed, max 1000°/sec
- Operating Temperature -20 ... +60°C
- Resolution up to 7200 p/rev (with MSW Processor)
- Power supply 10 ... 36 V DC
- Integrated electronics
- Torque signal telemetry transmission from rotor to stator
- Torque measurement without bearing-friction influence
- Non-contact, optical steering-angle sensor
- Airbag adaptation available
- Low fitting depth
- Easy fitting to steering column using original-equipment fixing screw through center hole
- Universal steering wheel mounting, utility vehicle compatible
- 100% overload protection on nominal range
- Steering ability maintained all time, even at burst



Article no.:
MSW/S 50 Nm **14256**
MSW/S 250 Nm **14257**

1-point Stator mounting bracket with suction **15747**

MSW Processor

Electronics Interface

for

CORRSYS-DATRON MSW Measurement Steering Wheels

- Reverse-polarity protection
- Supports 50 Nm and 250 Nm MSW Measurement Steering Wheels with analog sensor output (MSW /S)
- Supports Motorola and Intel formats (CAN)
- Termination resistor switchable via CORRSYS-DATRON CeCalWin Pro Software (CAN)
- Online display of all output signals with CeCalWin Pro Software
- Software zero-point balance via CeCalWin Pro
- Easy set-up via CeCalWin Pro
- Upgrade for existing Measurement Steering Wheels without analog output (MSW) possible

Typical Technical Data

Input voltage:	10 ... 36V DC (reverse polarity protected)		
Sensor input:	for direct connection to the MSW		
Angle resolution:	0.05°		
Analog outputs:	steering torque M1 ($\pm 50 / 250$ Nm)	-10...10V	
	steering torque M2 ($\pm 10 / 50$ Nm)	-10...10V	
	steering angle L1 (± 1250 °)	-10...10V	
	steering angle L2 (± 200 °)	-10...10V	
	steering speed (± 1000 °/s)	-10...10V	

DA converter resol.: ≤ 0.008 Nm, 0.04° , $0.04^\circ/\text{s}$

Digital outputs:
steering torque
steering angle
steering speed

CAN Output: CAN V2.0B

All outputs are protected against overvoltage and short circuit;

PC-Interfaces: RS232
USB 1.1

Adjustable Filter time: 8 ... 512 ms or unfiltered

Data update rate: 250 Hz

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MSW Processor 14075

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CORRSYS-DATRON reserves the right to change
specifications without prior notice.