



HF-500C Sensor

Optical Laser Height Sensor
with CORREVIT® SF housing profile

for

Non-Contact Distance Measurement

- The profile of the HF-500C Sensor is shaped to match the CORREVIT® SF II Optical Sensor. This enables HF and SF II Sensors to be bolted together for simultaneous use on a single mounting system.
- Compact design
- With spray guard for better performance in wet conditions
- Measuring range 125 ... 625 mm
- For static and dynamic measurement
- Easy to mount
- Analog, RS232, and CAN Bus output
- Tested and used under extreme environmental conditions

Function:

The CORRSYS-DATRON HF-500C Sensor uses the principle of optical triangulation. A visible red laser is focused onto the road surface. Reflected light is collimated onto a linear CCD array. The distance to the object is calculated from the position of the light spot on the CCD array. The output of the sensor is directly proportional to the measured height.

Application:

The compact CORRSYS-DATRON HF-500C Sensor is designed for use in dynamic vehicle testing applications that require accurate measurement of the following variables:

- Ride height
- Displacement
- Determination of pitch & roll angle
- Tire deflection
- Dynamic camber angle measurement with two HF sensors (see the CORRSYS-DATRON DCA-System)
- Tire lift-off (Fishhook Test)

The HF-500C Sensor is configured with the CORRSYS-DATRON Software CeCalWin Pro via the serial port (RS232).



Article no.
HF-500C with CAN 15380

Typical Technical Specifications

Technical Specifications

Measuring range:	125 ... 625 mm
Resolution:	0.2 mm
Linearity:	±0.2%
Sampling rate *:	1 ... 8 kHz
Light source:	Laser
Laser Power:	< 5 mW
Laser Class:	3R (IEC 60825-1)
Wave length:	660 nm (red)
Approx. spot size:	1 mm x 2 mm

Outputs

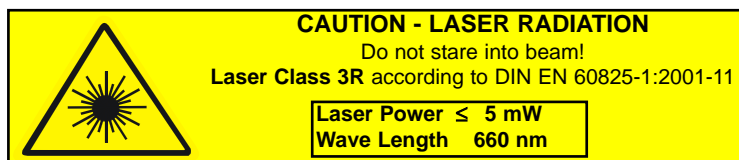
Analog, RS232, CAN bus

System Specifications

Output voltage	0 ... 10 V
Power supply:	9 ... 18 V; (125 mA @ 12 V DC)
Temperature range:	
Operating:	-5 ... 60°C
Storage:	-10 ... 70°C
System protection of the sensor:	IP 67
Weight:	155 g (without cable)
Dimensions of the sensor (l x w x h):	100 mm x 20 mm x 40 mm' (without spray guard)
Case:	aluminum, anodized

* Sampling rates up to 8kHz are possible on surfaces with high reflection

The HF-500C Sensor is compatible with the standard CORRSYS-DATRON mounting system.



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In a continuous effort to improve our products, CORRSYS-DATRON reserves the right to change specifications without prior notice.

CORRSYS-DATRON
www.corrsys-datron.com

International Headquarters

CORRSYS-DATRON Sensorsysteme GmbH
P.O. Box 1349 • 35523 Wetzlar / Germany
Phone: +49-6441-9282-0
Fax: +49-6441-9282-17
e-mail: sales@corrsys-datron.com

North American Headquarters

CORRSYS-DATRON Sensorsystems Inc.
40000 Grand River, Suite 503 • Novi, MI 48375 • USA
Phone: 248-615-2035 • Toll-free: 800-832-0732
Fax: 248-615-2184
e-mail: USA-sales@corrsys-datron.com

Chinese Headquarters

CORRSYS-DATRON Sensorsysteme GmbH - China
Room 610, JinTianDi International Mansion,
No. 998 RenMin Road, Shanghai (200021), P.R.China
Phone: ++86-21-63114144 • Fax: ++86-21-63114154
e-mail: Xiaoying.Li@corrsys-datron.com.cn