



HF Sensors

Optical Laser Height Sensor
with CORREVIT® SF Housing Profile
for

**non-contact distance measurement:
HF-250C / HF-500C / HF-750C**

- The profile of the HF-xxxC Sensors 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 HF-250C: 100 ... 350 mm
Measuring range HF-500C: 125 ... 625 mm
Measuring range HF-750C: 150 ... 900 mm
- For static and dynamic measurement
- Easy to mount
- Outputs: Analog, RS232 and CAN Bus
- Tested and used under extreme environmental conditions

Function:

CORRSYS-DATRON HF-xxxC Sensors use 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-xxxC Sensors are 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-xxxC Sensors (see the CORRSYS-DATRON DCA-System)
- Tire lift-off (Fishhook Test)

HF-xxxC Sensors are configured with the CORRSYS-DATRON Software CeCalWin Pro via the serial port (RS232).



Article no.:

HF-250C Sensor 15379

HF-500C Sensor 15380

HF-750C Sensor 15914

Typical Technical Data

Technical Specifications

	HF-250C	HF-500C	HF-750C
Measuring range	100 ... 350 mm	125 ... 625 mm	150 ... 900 mm
Resolution:	0.1 mm	0.2 mm	0.3 mm
Linearity:	± 0.2 %	± 0.2 %	± 0.3 %

For all HF Senors:

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

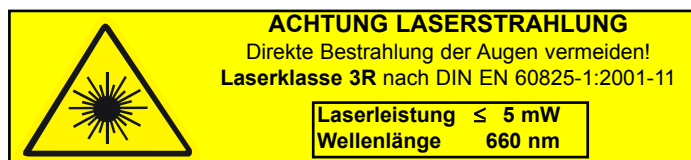
Outputs Analog, RS232, CAN bus

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-xxxC Sensors are compatible with the standard CORRSYS-DATRON mounting system.



© 2009 CORRSYS-DATRON Sensordysteme GmbH, Deutschland
HFxC_d-072-073-078-e-rev001 05/09

CORRSYS-DATRON
A Kistler Group Company

CORRSYS-DATRON Sensordysteme GmbH
P.O. Box 1349 • 35523 Wetzlar / Germany
Phone: +49 64 41 92 82 0
Fax: +49 64 41 92 82 17

www.corrsys-datron.com

sales@corrsys-datron.com

KISTLER
measure. analyze. innovate.

www.kistler.com

CORRSYS-DATRON Sensordysteme GmbH
behält sich Änderungen und technische
Verbesserungen ohne Vorankündigung vor.

Kistler Instrumente AG
P.O. Box • CH-8408 Winterthur / Switzerland
Phone: +41 52 224 11 1
Fax +41 52 224 14 14

info@kistler.com