

Contamination Sensor

CS 1939

CS 1000

CS 1939



Features and Benefits

- Critical machine conditions are identified in early stages
- Continuous monitoring of oil conditions
- Condition-based maintenance planning

Market Applications

- Industrial hydraulic and lubrication systems
- Mobile hydraulics

- Compatible with:



CSI-C-11

HY-TRAX®

RBSA

CSM

FCU

MCS

AS

SMU

CTU

EPK

Trouble
Check Plus

HMG2500

HMG4000

ET-100-6

HTB

RFSA

HFS-BC

HFS-15

MFD-BC

MFS, MFD

HY-TRAX®
Retrofit System

MFD-MV

MFS-HV

AMS, AMD

FS

AMFS

KLS, KLD

MCO

AKS, AKD

LSN, LSA, LSW

X Series

OLF Compact

OLF

OLF-P

NxTM

VEU-F

IXU

Triton-A

Triton-E

NAV

SVD01

SVD

OXS

Appendix

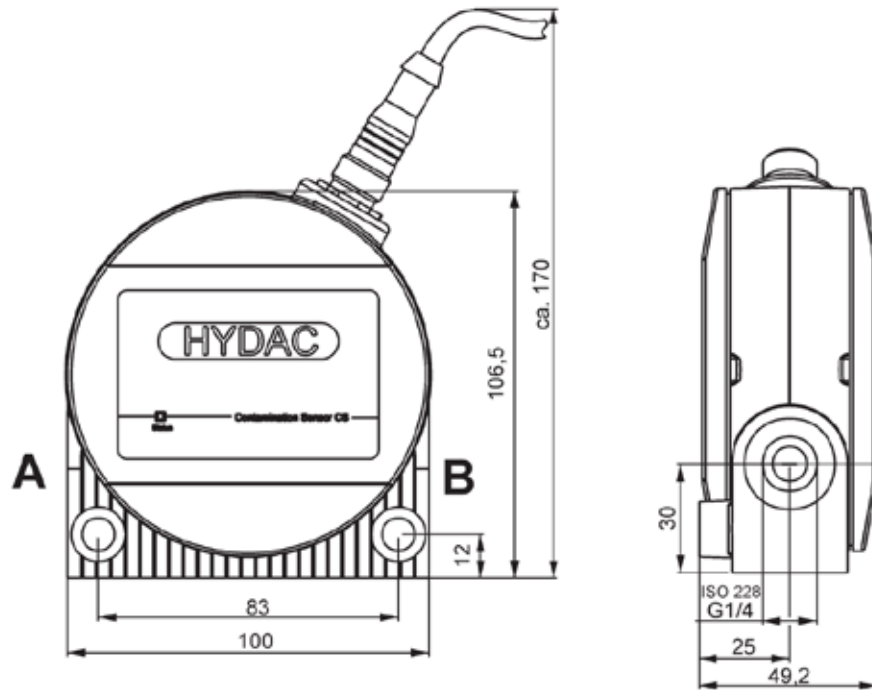
Description

Specifications

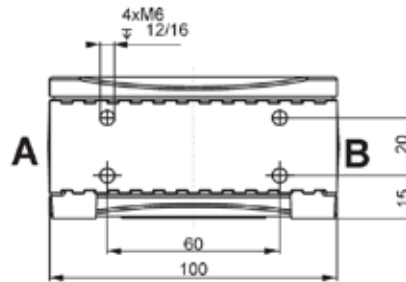
| | |
|---|---|
| Self-diagnosis: | Continuous with error display via status LED |
| Measured variables: | ISO 4406 SAE AS 4059 |
| Service parameters: | Flow (status) Drive (%) Temp (°F) and (°C) |
| Installation position: | Recommended: vertical direction flow |
| Ambient temperature: | -22°F to 176°F (-30°C to 80°C) |
| Storage temperature range: | -40°F to 176°F (-40°C to 80°C) |
| Relative humidity: | max. 95%, non-condensing |
| Seal Material: | FPM for CS1939-0 / EPDM for CS1939-1 |
| Protection class: | III (safety extra-low voltage) |
| Weight: | 2.9 lb (1.3 kg) |
| Measuring range: | Sensor measures from Class ISO 9/8/7 (MIN) to Class ISO 25/24/23 (MAX) Calibrated in the range ISO 13/11/10 to 23/21/18 |
| Accuracy: | +/-½ ISO class in the calibrated range |
| Operating pressure: | max. 5075 psi / 350 bar |
| Hydraulic connection: | Inline or hose connection (A,B): thread G1/4, ISO 228 or flange connection (C,D): DN 4 |
| Permitted measurement flow rate: | 30 to 500 mL/min |
| Permitted viscosity range: | 32 to 4635 SUS (1 to 1000 cSt) |
| Fluid temperature range: | 32°F to 185°F (32°C to 85°C) |
| Connection, male: | M12x1, 5-pole, to DIN VDE 0627 or IEC61984 |
| Supply voltage: | 9 to 36 VDC, residual ripple < 10% |
| Power consumption: | 3 watts max. |
| CAN interface: | 2-wire, half duplex SAE CAN J1939 protocol |
| HSI (Sensor Interface): | 1 wire, half duplex |

Dimensions

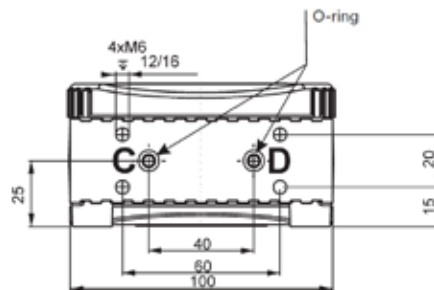
CS 1939 without display



Bottom view
Pipe or hose connection



Flange connection



Metric dimensions in ().

Contamination Sensor

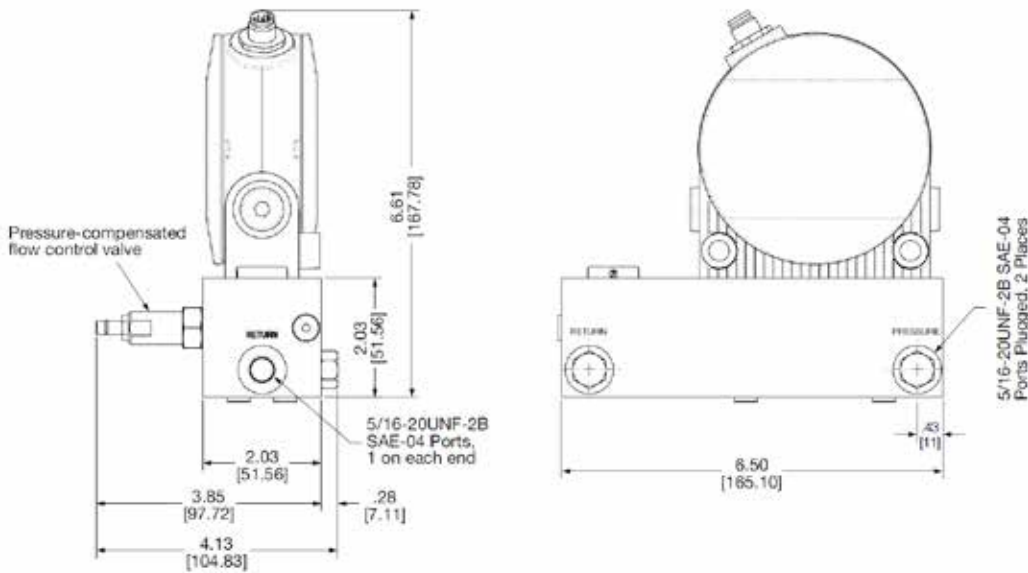
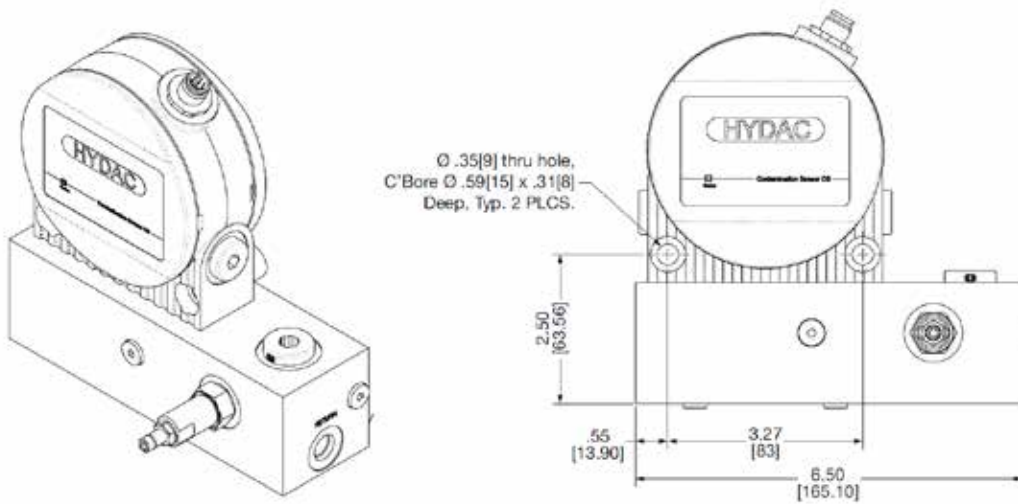
CS 1939

CS 1000

CS 1939

CS 1939 with Block Kit (Requires minimum flow of 0.3 L/min., and minimum pressure of 6 bar)

Dimensions (cont.)

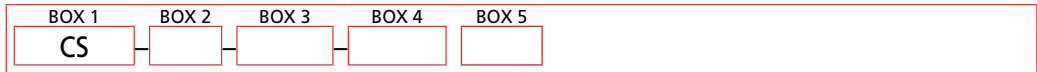


Metric dimensions in ().

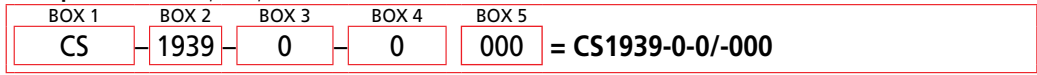
- CSI-C-11
- HY-TRAX®
- RBSA
- CSM
- FCU
- MCS
- AS
- SMU
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- EPK
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- HMG2500
- HMG4000
- ET-100-6
- HTB
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- HFS-BC
- HFS-15
- MFD-BC
- MFS, MFD
- HY-TRAX® Retrofit System
- MFD-MV
- MFS-HV
- AMS, AMD
- FS
- AMFS
- KLS, KLD
- MCO
- AKS, AKD
- LSN, LSA, LSW
- X Series
- OLF Compact
- OLF
- OLF-P
- NxTM
- VEU-F
- IXU
- Triton-A
- Triton-E
- NAV
- SVD01
- SVD
- OXS
- Appendix

Model Number Selection

How to Build a Valid Model Number for a Schroeder CS 1939:



Example: NOTE: One option per box



| BOX 1 | BOX 2 |
|-------|--|
| Type | Indicator Code |
| CS | 1939 = Contamination Codes ISO 4406; SAE 4059 (D) / > 4 $\mu\text{m}(c)$ > 6 $\mu\text{m}(c)$ > 14 $\mu\text{m}(c)$ > 21 $\mu\text{m}(c)$ Interface/protocol: CAN/CAN SAE J1939 without Display (Electrical connection Plug M12x1, 5-pole) |

| BOX 3 | BOX 4 | BOX 5 |
|--|---|---|
| Fluids | Mounting | Modification Number |
| 0 = based on Mineral Oil 1 = Phosphate Esters | 0 = Inline or hose connection 1 = Flanged connection | 000 = Standard K = CS Block Kit (requires mounting option 1) |

Scope of Delivery

- Contamination Sensor
- Calibration Certificate
- 2 x O-Ring (only for flange connection version)
- CD with FluMoS Light Software and manual
- CD with detailed operating and maintenance instructions in different languages (PDF viewer software required)

Accessories

| Designation | Part-No. |
|--|----------|
| Supply voltage | |
| Female connector with 5 m cable, screened, 5-pole, M12x1 | 3527626 |
| Female connector with 10 m cable, screened, 5-pole, M12x1 | 3527627 |
| Extension cable 5 m, female connector 5-pole, M12x1 / Male connector 5-pole, M12x1 | 6040852 |
| Female connector with screw terminal, 5-pole, M12x1 | 6049128 |
| CSI-D-5 Contamination sensor interface | 3249563 |
| FluMoS Professional Software (CD) | 3371637 |

Pressure - Viscosity Range

