FC100-CA | Monitoring head CSF-11

Description

Extended calorimetric monitoring head with variable immersion depth for Flow Meter FC100-CA, suitable for use in pipelines with process connections DN 50 plus.

Caution: Fix with locking set 01 (see accessories).

Features

- Medium temperature range Stainless steel version: -40 $^{\circ}\text{C}$... +130 $^{\circ}\text{C/-40}$ $^{\circ}\text{F}$... +266 $^{\circ}\text{F}$
- Material: stainless steel 1.4571/AISI 316 Ti
- Not suitable for carbon dioxide and argon!

Monitoring head CSF CSF-11 variable immersion depth

Ordering information

Туре						
CSF	Exte	ende	d mon	itoring	head	with calorimetric sensors
	Mor	nitori	ing he	ad de	sign	
	11	Мо	nitorir	ng hea	d with	variable immersion depth
		Me	dium			
		Α	air			
		Т	Mate	erial c	of area	s exposed to medium
			M1	stain	less st	eel 1.4571/AISI 316 Ti
			M2	nicke	el-base	alloy Hastelloy alloy C4 2.4610
			\top	Proc	ess co	onnection
				00	witho	out flange; see accessories for connections
				T		th of shank/thread
					L43	188 mm (standard)
						other lengths upon request
						Electrical connection
						E10 round connector with tinned
						contacts
						(plug and cable to order separately)
						Certification
						T0 without certificate (standard) *)
						Specification of medium
						XXX
CSF -	11	A	M1	00	L43	E10 T0 ordering example

*) for detailed information please see section 0

Dimensions round connector ø18 709 monitoring head should be aligned in direction of flow (see arrow) CSF-...L43... 188 7.40 CSF-...L30... 300 11.81 CSF-...L40... 15.75 This is a metric design and millimeter dimensions take precedence $(\frac{mm}{inch})$

Technical data

Type of head Shank diameter 18 mm/.709 in. without thread Length of shank Length of sensor 14 mm/.551 in. Suitable for air, compressed air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire) Temperature range*) (of gas) Temperature drift of sensor (in the range between +20 °C +80 °C/+68 °F +176 °F) Measuring ranges: Flow velocity range: Pressure resistance (1) (sensor) Pressure resistance (1) (installation) Degree of protection Material push-in 18 mm/.709 in. without thread 14 mm/.551 in. Suitable for 40 °C +130 °C/-40 °F +266 °F (stainless steel) 1 depending on immersion depth; 0 - 68 (100) Nm/s Pressure resistance (1) (see accessories) Degree of protection Connector (2): IP67 Material Stainless steel 1.4571/AISI 316 Ti Cable to electronic unit		
Length of shank Length of sensor 14 mm/.551 in. Suitable for air, compressed air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire) Temperature range*) (of gas) Temperature drift of sensor (in the range between +20 °C +80 °C/+68 °F +176 °F) Measuring ranges: Flow velocity range: Pressure resistance (1) Pressure resistance (1) Cable to 188 mm/7.40 in. 189 m/7.40 in. 199 conserved air, nitrogen, oxygen, methane, oxygen, oxygen, methane, oxygen, methane, oxygen, oxygen, methane, oxygen, oxy	Type of head	push-in
Length of sensor 14 mm/.551 in. Suitable for air, compressed air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire) Temperature range*) (of gas) Temperature drift of sensor (in the range between +20 °C +80 °C/+68 °F +176 °F) Measuring ranges: Flow velocity range: Pressure resistance (1) (sensor) Pressure resistance (1) (installation) Degree of protection Material LifYCY 4x2x0.2 mm² (AWG 24)	Shank diameter	18 mm/.709 in. without thread
Suitable for air, compressed air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire) Temperature range*) (of gas) Temperature drift of sensor (in the range between +20 °C +80 °C/+68 °F +176 °F) Measuring ranges: Flow velocity range: Pressure resistance (1) (sensor) Pressure resistance (1) (installation) Degree of protection Air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire) 100 S. Hall O. S. Hall	Length of shank	188 mm/7.40 in.
methane, hydrogen and other gases (please enquire) Temperature range*) (of gas) Temperature drift of sensor Measuring ranges: Flow velocity range: Pressure resistance (1) Pressure resistance (1) Degree of protection methane, hydrogen and other gases (please enquire) -40 °C +130 °C/-40 °F +266 °F (stainless steel) **** ***** **** **** **** **** ****	Length of sensor	14 mm/.551 in.
(of gas) (stainless steel) Temperature drift of sensor (in the range between +20 °C +80 °C/ +68 °F +176 °F) Measuring ranges: Flow velocity range: O - 68 (100) Nm/s Pressure resistance (1) (sensor) Pressure resistance (1) (installation) Degree of protection Material Cable to (stainless steel) depending on connection (see accessories) connector (2): IP67 Material LifYCY 4x2x0.2 mm² (AWG 24)	Suitable for	methane, hydrogen and other gases
of sensor (in the range between +20 °C +80 °C/+68 °F +176 °F) Measuring ranges: Flow velocity range: 0 - 68 (100) Nm/s Pressure resistance (1) (sensor) Pressure resistance (1) (installation) Degree of protection Material Cable to (in the range between +20 °C +80 °C/+68 °F +176 °F) depending on immersion depth; 100 bar/1450 psi (stainless steel) (see accessories) Cese accessories) LifYCY 4x2x0.2 mm² (AWG 24)		
Flow velocity range: 0 - 68 (100) Nm/s Pressure resistance (1) 100 bar/1450 psi (stainless steel) (sensor) Pressure resistance (1) depending on connection (installation) (see accessories) Degree of protection connector (2): IP67 Material stainless steel 1.4571/AISI 316 Ti Cable to LifYCY 4x2x0.2 mm² (AWG 24)	·	(in the range between +20 °C +80 °C/
(sensor) Pressure resistance (1) depending on connection (installation) (see accessories) Degree of protection connector (2): IP67 Material stainless steel 1.4571/AISI 316 Ti Cable to LifYCY 4x2x0.2 mm² (AWG 24)	0 0	
(installation) (see accessories) Degree of protection connector (2): IP67 Material stainless steel 1.4571/AISI 316 Ti Cable to LifYCY 4x2x0.2 mm² (AWG 24)		100 bar/1450 psi (stainless steel)
Material stainless steel 1.4571/AISI 316 Ti Cable to LifYCY 4x2x0.2 mm² (AWG 24)		
Cable to LifYCY 4x2x0.2 mm² (AWG 24)	Degree of protection	connector (2): IP67
	Material	stainless steel 1.4571/AISI 316 Ti
	04.5.0	LifYCY 4x2x0.2 mm² (AWG 24)

- Admissible operating pressure DIN 2401, measured at max. temperature
- (= max. medium temperature) with mating connector
- max. +85 $^{\circ}\text{C}/\text{+}185~^{\circ}\text{F}$ in the connector area

FC100-CA | Cable types and accessories (CSF-11)



Cable types 15/18 with connectors



Do + Ka type 18

Description

Cable between Flow Meter FC100-xxx and calorimetric monitoring head type CSF.

- · Connection to monitoring head by means of 8-pole round connector
- Connection to FC100-xxx by means of 10-pole clamping connector (XSK)

Technical data

Cable type 15

Features: highly flexible, paired, fully shielded,

electrical and thermal properties at +20 °C/+68 °F

Conductor resistance:	92 Ω/km	
Insulation resistance:	20 MΩ x km	
Operating voltage:	250 V	7
Withstand voltage:	500 V	
Max. load:	2 A	
Temperature range:	-10 °C +80 °C/+14 ° F +176 °F (processing and operation) -30 °C +80 °C/-22 ° F +176 °F (transport and storage)	

Cable type 18

Features: non-halogenous, highly flexible, cold- and heat resistant,

paired, fully shielded, electrical and thermal properties

at +20 °C/+68 °F

Conductor resistance:	80 Ω/km	
Insulation resistance:	1200 MΩ x km	
Operating voltage:	300 V	
Withstand voltage:	1500 V	
Max. load:	3 A	
Temperature range:	-50 °C +180 °C/-58 °F +356 °F	

Ordering information

8-pole round connector + 10-pole clamping connector **Do + Ka type 18 silicone** insulated cable, type 4x2x0.2 mm² (AWG 24)

8-pole round connector + 10-pole clamping connector

Available cable lengths

...m 2 m, 3 m, 5 m, 8 m, 10 m, 15 m, 20 m, 25 m, 30 m, 40 m, 50 m, 60 m, 70 m, 80 m, 90 m, 100 m, 110 m, 120 m, 130 m, 140 m, 150 m, 160 m, 170 m, 180 m, 190 m, 200 m (up to max. 656 ft)

Do + Ka type 15 - 2 m ordering example

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