

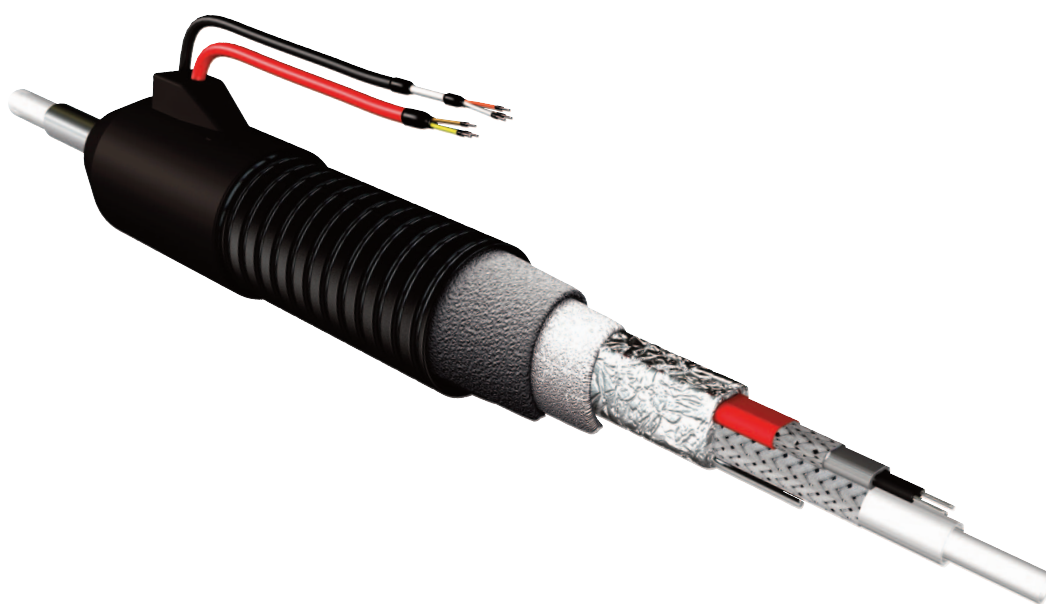


JH3BE

Heated Sample Line

self-regulating cut-to-length

JCT
Analysentechnik



Gas Sampling
Probes

Heated Sample Lines

Sample Gas
Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

APPLICATION

- Extractive gas analysis
- Emission and process monitoring
- Transport of sample gas from sample point to analysis system
- Remains steadily/safely above acid dew point or for frost protection
- To prevent measurement faults
- Indoor and outdoor use

BENEFITS

- No condensate formation, no freezing
- Resilient external protection
- Excellent insulation
- Optimal heat deployment
- Available for "cut-to-length on-site" in rolls up to 150 m with additional termination kits
- Available as "ready-to-use" heated sample line with termination from factory

FEATURES

- Operating temperature up to 120 °C
- External jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- Sample gas core: PTFE, PFA or SS316, DN 4 to DN 10 mm
- Delivered with end caps mounted from factory or open end(s) for on site termination
- Second core for e.g. calibration gas as option

TECHNICAL DATA

MODEL

JH3BE

Description	self-regulated heated sample line "cut-to-length on-site" or "pre-assembled" from factory
External jacket	corrugated polyamide 12 jacket, black option: with silicone layer
Sample gas core	fixed; interchangeable on request
Area of application	fixed installation indoor and outdoor

OPERATION

Operating temperature	self-regulating 30 °C / 100 °C / 120 °C (optional 5 °C / 50 °C / 80 °C) at -20 °C ambient temperature
Operating pressure (max. at 150 °C)	atmospheric option pressure hose: - PTFE / PFA core: DN 4/6 mm 6 bara; DN 6/8 mm 4 bara; DN 8/10 mm 3 bara, 1/4" OD 7 bara, 3/8" OD 5 bara - SS316 core, all diameters: 10 bara
Ambient temperature	-20 °C to +60 °C

CONSTRUCTION

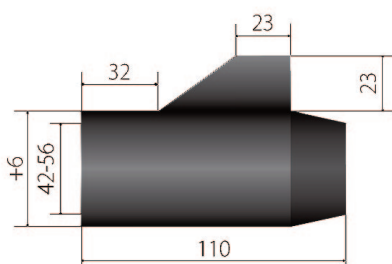
Material sample gas core	PTFE, PFA, SS316
Heating Element	heating cable
Thermal insulation	multi-layered thermal fleece
End configuration	silicone caps (mounted ex-works or on-site termination kit)
Maximum length of finished sample line	see table "rated output" / column "maximum length of heating circuit" page 4
Outer diameter heated sample line (without end caps)	for operating temperatures up to 100 °C: 43 mm for operating temperature 120 °C: 55 mm
Dimensions silicone end caps	heated sample line diameter plus 6 mm
Minimum bending radius	DN 4/6 and DN 6/8 mm: 230 mm DN 8/10 and DN 10/12mm: 280 mm with interchangeable inner core: DN 4/6 and DN 6/8 mm: 280 mm
Weight	1,000 g/m
Maximum production length	max. 150 m
Protection class	IP54 (EN60529)
Approvals / Sign	CE

ELECTRICS

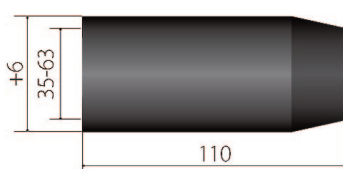
Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz
Power consumption	see table "power consumption" page 4
Temperature sensor	without; optional 2-wire PT100; others on request
Power supply cable (if terminated from factory)	1.5 m cable with open leads, depending on power consumption: up to 16 A = 3 x 1.5 mm ² cables up to 25 A = 3 x 2.5 mm ² cables up to 32 A = 3 x 6 mm ² cables with modified end cap

Dimensions of end caps

Dimensions in mm



end cap for self termination, included in set



end cap side 2



end cap for factory termination type "L"

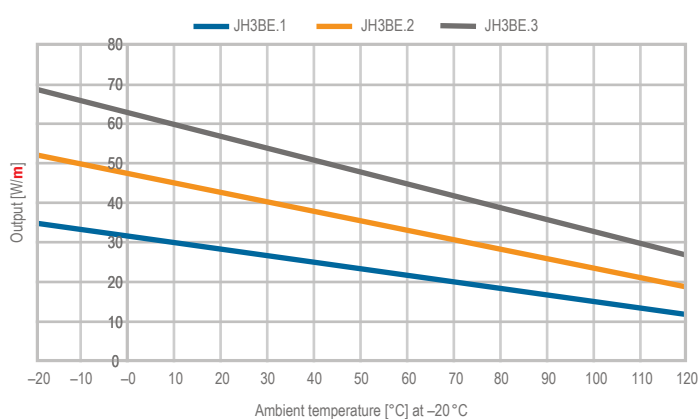
RATED OUTPUT

230 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BE.1	JH3BE.2	JH3BE.3
10 °C	16	80.0	53.0	39.0
	20	100.0	66.0	49.0
	25	109.0	83.0	62.0
	32	109.0	89.0	77.0
0 °C	16	75.0	50.0	37.0
	20	95.0	63.0	47.0
	25	106.0	79.0	59.0
	32	106.0	86.5	75.0
-10 °C	16	71.0	48.0	35.0
	20	90.0	60.0	44.0
	25	103.5	75.0	56.0
	32	103.5	84.5	68.0
-20 °C	16	68.0	45.0	34.0
	20	85.0	57.0	42.0
	25	101.0	72.0	54.0
	32	101.0	82.5	65.0

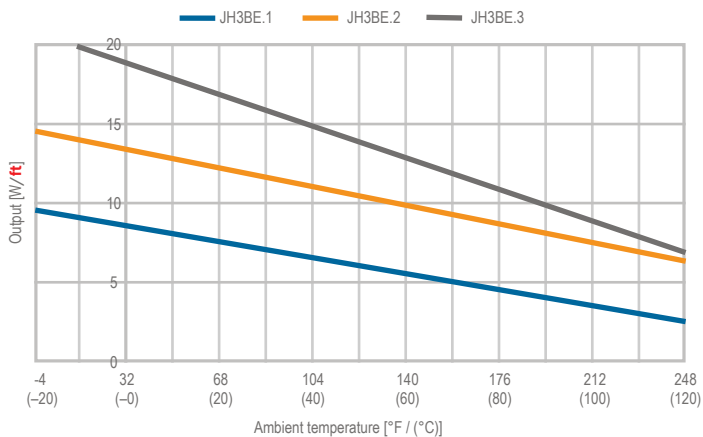
115 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BE.1	JH3BE.2	JH3BE.3
10 °C	15	49.5	31.0	22.0
	20	66.5	42.0	30.0
	25	84.0	53.0	38.0
	30	101.0	64.0	46.0
0 °C	15	47.0	29.5	21.0
	20	64.0	40.0	28.0
	25	80.0	51.0	36.0
	30	69.0	62.0	44.0
-10 °C	15	45.5	29.0	20.0
	20	61.0	39.0	27.0
	25	77.0	49.0	34.0
	30	93.0	59.0	41.5
-30 °C	15	68.0	26.5	18.0
	20	57.0	36.0	24.5
	25	72.0	46.0	31.0
	30	86.0	55.0	37.5

POWER CONSUMPTION

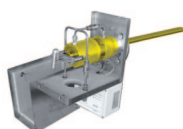
230 VAC note: consumption (metric) [W/m]



120 VAC note: consumption (imperial) [W/ft]



Gas Sampling Probes



Heated Sample Lines



Sample Gas Coolers



Gas Conditioning Systems



NOx Converter



and solutions for

