CONNECTION HEAD WITH DISPLAY Mounting of sensor: Plain tube Ø15.3mm, Thread M24x1,5 Mounting of cap: Tilting cap with screw	**Type:** **PH-BSBH-S**	Sheet No. 7-60 V2.2 **10104-E240919V2.2**

Application:

The PH-BSBH-S is a connection head with a tilting high cap and an integrated digital indicator for 4…20 mA current loops.
It provides local indication of process values directly at the measuring point and is intended for installation together with a head-mounted temperature transmitter that provides a 4…20 mA signal.
The indicator is loop-powered and connected in series with the transmitter output, allowing quick visual verification during commissioning, calibration, or service.

Properties:

- Robust aluminium housing, powder-coated
- Integrated 4-digit LED display (°C / °F)
- Displays 4…20 mA loop signal (loop-powered)
- Degree of protection: IP 67 (front)
- Tilting cap secured with screw
- Cable entry M20×1.5 mm

MECHANICAL SPECIFICATIONS:

Case and cap material:
Powder-coated die-cast aluminium (Al-Si alloy)

Surface:
Powder-coated

Mounting of cap:
Tilting cap secured by screw

Process entry:
Ø 15.3 mm bore, thread M24×1.5 mm (Ø 22.5 mm optional)

Inner dimensions (for transmitter):
Ø 52×30 mm (space for transmitter and display wiring)

Ambient temperature (housing only):
–40 … +100 °C

Cable entry:
M20×1.5 mm

ELECTRICAL SPECIFICATIONS

Input		
Current loop:	4...20 mA	
Input resistance:	Ri : <160 Ω (U <3,2 V)	
Accuracy		
Resolution:	-999...+9999 digit	
Measuring fault:	±0,2% of measuring range, ±1 digit	
Temperature drift:	100 ppm/K	
Indication		
Display:	7 segments, 8 mm high, red, 4 digits	
Overflow/Underflow:	to HI / to LO	
Time of indication:	0,1 s - 1 s - 10 s (adjustable)	
Ambient conditions		
Operating temperature:	standard: 0...+80°C / Ex-type: 0...+60°C	
Storing temperature	-20...+80°Cjh	
Programmable features		
range of indication / time of indication / decimal point / unit (°C/°F) / stabilization zero point / locking of programming / calibration points / TAG number		
Homologation		
EC Type Examination Certificate:	ZELM 05 ATEX 0252	
Attestation of conformity;	ZELM 05 ATEX 3175	
Mechanics		
Material enclosure:	Macrolon	
Protection:	Front: IP 67	Connection: IP 20
Connection	open cable ends	plug-in connector up to 1,5 mm²:
Carrier circular	Dimension:	Ø 43/48,5/62,5 mm x 37mm
	Fastening:	4 mounting holes for M4
	Weight:	approx. 45 g
Carrier angular:	Dimension:	42 x 42 x 28 mm
	Fastening:	4 holes for 2 mm screws
	Weight:	approx. 55 g

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