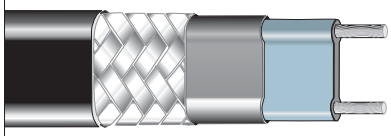
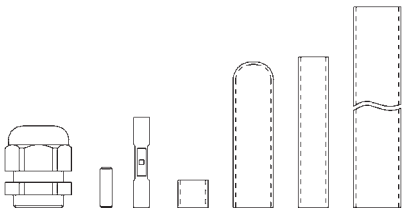
**PSBL heating cable**



**Terminal box**

**Installation kit**



# *System overview PSBL*

## Features

- Safe, self- limiting, without overheating while overlapping, thermostat not mandatory
- Easy installation, cutting and terminating on-site, random length possible and use of up-to-date connection technology
- Space-saving, favourable dimensions flexible and easy installation
- Installation also in Ex- area, maximum admissible work-piece temperature of +65°C (power ON).
- Certificate for complete system IEC/EN 60079-30-1 (*CSA, PSBL heating cable)
- Hard environment conditions, junction boxes made of polyester, stainless steel and aluminium
- BARTEC HELOC calculation and design - Software - Free Download

## Description

Typical applications are frost protection, maintaining temperature and heat- up in pipes, tanks, vessels or at surfaces. Where impulse lines, measuring lines and thin analysis pipes need to be heated in non-ex areas for process industry and also in explosive atmospheres the BARTEC electric heating system type PSBL offers the optimum solution (Ex II2G Ex e II T5 and Ex II2D Ex tD A21 IP 65 T 95 °C). The heating cable is highly flexible and favourably small dimensioned.

The self-limiting heating cable type PSBL is available with various nominal power ratings from 10 W/m to 30 W/m at 10 °C (maximum admissible work-piece temperature of +65 °C, power ON). The standard outer insulation jacket is made of polyolefin or optionally of a fluorine polymer plastic for special applications which require chemical resistance and mechanical strength.

## Explosion protection

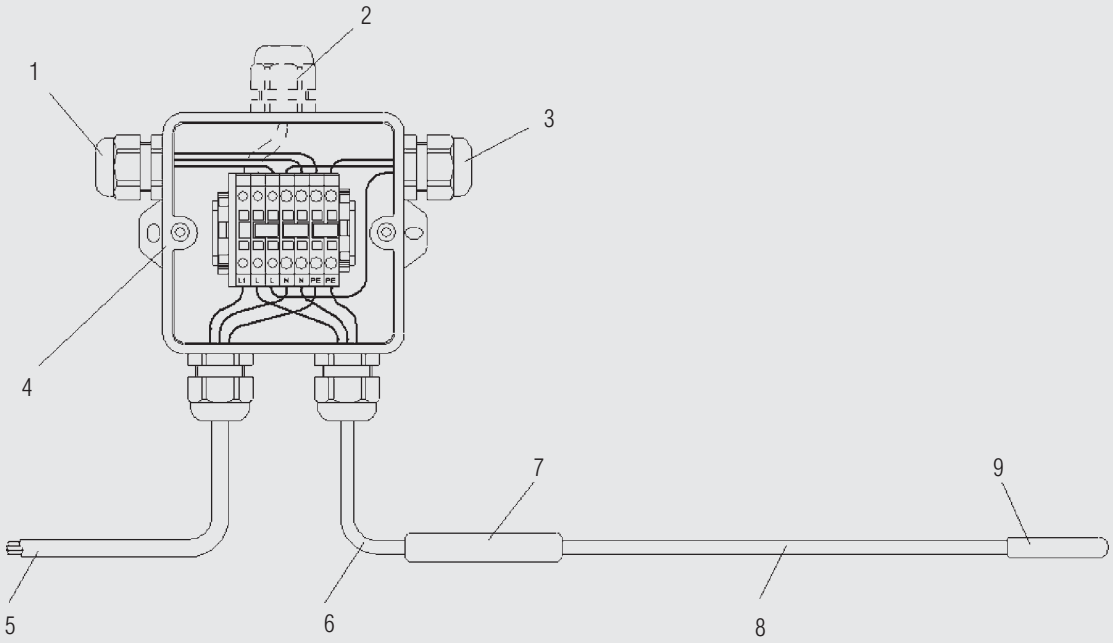
**Certification**

KEMA 08 ATEX 0112
CSA 1862457
IECEx KEM 09.0085

## System overview

- Self- limiting parallel heating cable type PSBL (AC 110 to 120 V, AC 208 to 254 V)
- Heat shrink technology and silicone cold-applied technology for connection and terminating (ambient temperature -55 °C up to +55 °C, IP 65)
- Junction box made of polyester, stainless steel and aluminium
- Option: mechanical or electronic control systems
- Direct connection of the heating cable into a junction box with heat shrink technology and silicone cold applied technology in Ex areas
- Flexible connection by using a cold lead into the junction box (indirect) made of heat shrink technology
- Splice connection set made of heat shrink technology

**PSBL heating circuit system diagram (typical example; not Ex)**




1 Heating circuit 2 (optional)
2 Mini thermostat (optional)
3 Heating circuit 3 (optional)
4 Terminal box 88 x 88 x 53 mm
5 Supply voltage
6 Hose line
7 Flexible connection (shrink-fit technology)
8 Heating cable
9 Terminal (shrink-fit hose)

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