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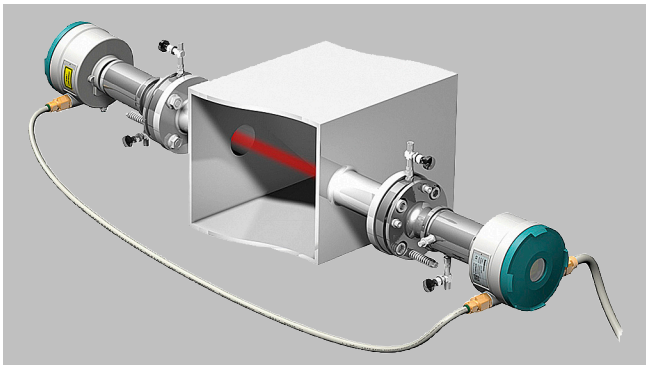
Overview



An Ex concept with type of protection "Flameproof enclosure d" is used for the SITRANS SL. The enclosure used resists an explosion caused by a potentially explosive gas mixture in the analyzer. Ignition of a potentially explosive atmosphere produced outside the enclosure is therefore reliably prevented.
The SITRANS SL consists of a flameproof transmitter, a flameproof receiver, and optionally a specially certified junction box with increased safety. The complete analytical system is accommodated in the two flameproof enclosures which are connected together by a cable. An additional cable is connected to the receiver, and serves as the power supply and customer interface. Both cables have a fixed connection to the flameproof enclosure ex factory. They must be connected in a suitable junction box if applicable. The receiver also has a local display (LUI).
SITRANS SL can be operated by Ex-certified infrared remote control without having to open the enclosure.
The laser has a radiated power of 0.8 mW. The irradiance is approx. 10.9 µW/mm^2. This is below the values permitted in EN 60079-28.
The SITRANS SL is available with ATEX or FM certificates.

Special conditions

Repairing of the flameproof gaps must only be carried out in accordance with the manufacturer's design directives.

Connection conditions

- Unused openings must be closed in accordance with EN 60079-1 Section 11.9.
- A fixed cable must be used for the SITRANS SL gas analyzer, and routed such that it is sufficiently protected against damage.
- If the temperature on the entry components is higher than 70 °C, appropriate temperature-resistant cables must be used.
- The SITRANS SL gas analyzer must be included in the local equipotential bonding.
- The end of the SITRANS SL gas analyzer cable must be connected in an enclosure which complies with the requirements of a recognized type of protection in accordance with EN 60079-0, Section 1, if the connection is made in the hazardous area.

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Design