Data sheet

Type M&C-SEB

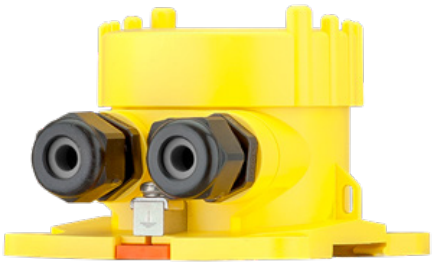
SIGNAL EXTENDER BOX

IDEAL USAGE

To be used for Measurement & Control projects in which the length of data cable needs to be extended both in and out ATEX-zoning

APPLICATIONS

- Extending data cable from a Radar Level Sensor to a controller outside ATEX-zone
- Extender box to be used in case of a damaged cable

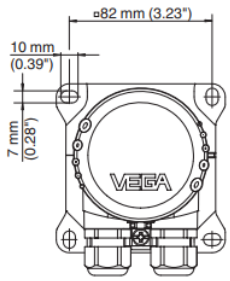


TECHNICAL SPECIFICATIONS

Scope:	Europe
Version:	Pressure compensation
Ambient, storage and transport Temperature:	-40 … +80 °C (-40 … +176 °F)
Vibration resistance:	4 g at 5…200 Hz according to EN 60068-2-6 (vibration with resonance)
Vibration resistance with carrier rail mounting:	1 g at 5…200 Hz according to EN 60068-2-6 (vibration with resonance)
Shock resistance:	100 g, 6 ms according to EN 60068-2-27 (mechanical shock)

MATERIALS

Plastic housing:	Plastic PBT (polyester)
Mounting:	Wall mounting with plastic housing
Seal between housing and housing lid:	NBR (stainless steel housing), silicone (Aluminium/plastic housing)
Ground terminal:	316L
Cable gland:	PA, stainless steel, brass
Sealing, cable gland:	NBR
Blind plug, cable gland	PA



BENEFITS

- Safe use in harsh environment through robust housing materials
- Simple and quick connection through integrated spring-loaded terminals
- Protection against moisture through high quality ventilation filter

ELECTRICAL PROTECTIVE MEASURES

Protection rating:

- **Housing, plastic:** IP 66/IP 67, NEMA Type 4X
- **Housing Aluminium, stainless steel:** F IP 66/IP 68 (0.2 bar), NEMA Type 6P

ELECTROMECHANICAL DATA

Options of the cable entry:

- **Cable entry / connection:** M20 x 1.5 / Cable gland PA black (ø 5 - 9 mm), standard
- **Cable gland:** M20 x 1.5, ½ NPT
- **Blind plug:** M20 x 1.5, ½ NPT
- **Closing cap:** ½ NPT

Connection terminals:

- **Type** Spring-loaded terminal
- **Stripping length** > 8 mm

Wire cross-section of the connection cable:

- **Massive wire, stranded wire** 0.2 … 2.5 mm² (AWG 24 … 14)
- **Stranded wire with end sleeve** 0.2 … 1.5 mm² (AWG 24 … 16)

APPROVALS

ATEX/UKEX II 1G, 2G, Ex ia IIC T6 Ga, Gb

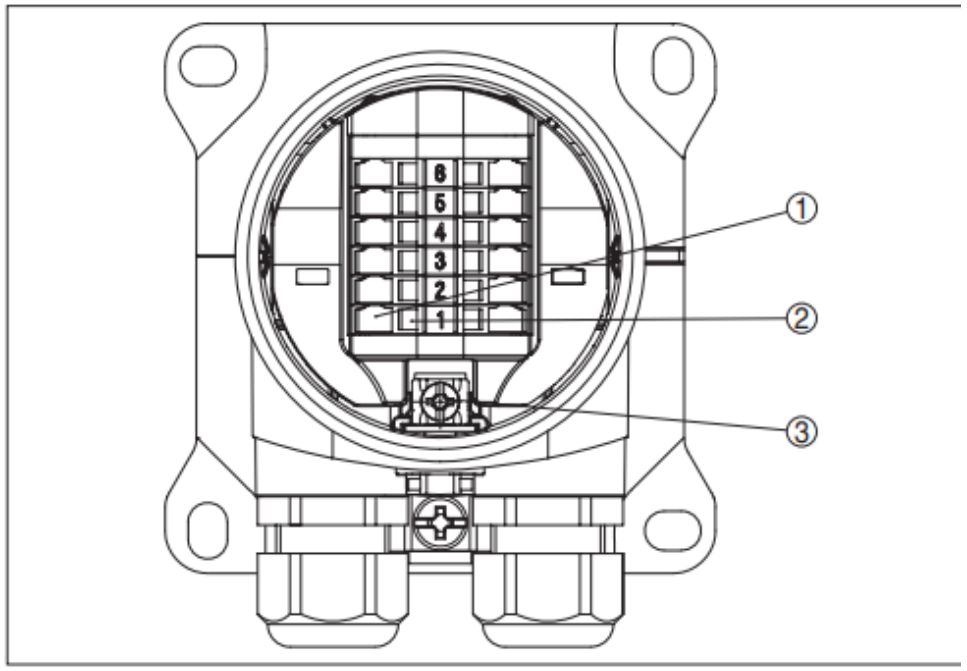


Fig. 8: Terminal compartment VEGABOX 03

1 Spring-loaded terminal for connection of the sensor
2 Release opening
3 Ground terminal for connection of the cable screen

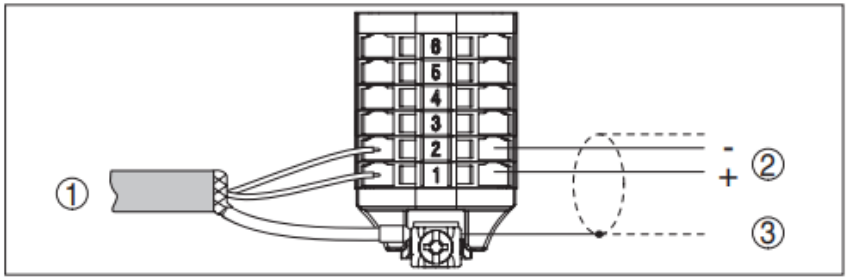


Fig. 11: Wiring plan VEGABOX 03 for VEGAPULS WL 61

1 To the sensor
2 To power supply or processing system
3 Shielding[3)]

Wire number	Wire colour/Polarity	Terminal
1	brown (+)	1
2	blue (-)	2