Level Pressure Flow Temperature Liquid Analysis Registration Systems Components Services Solutions

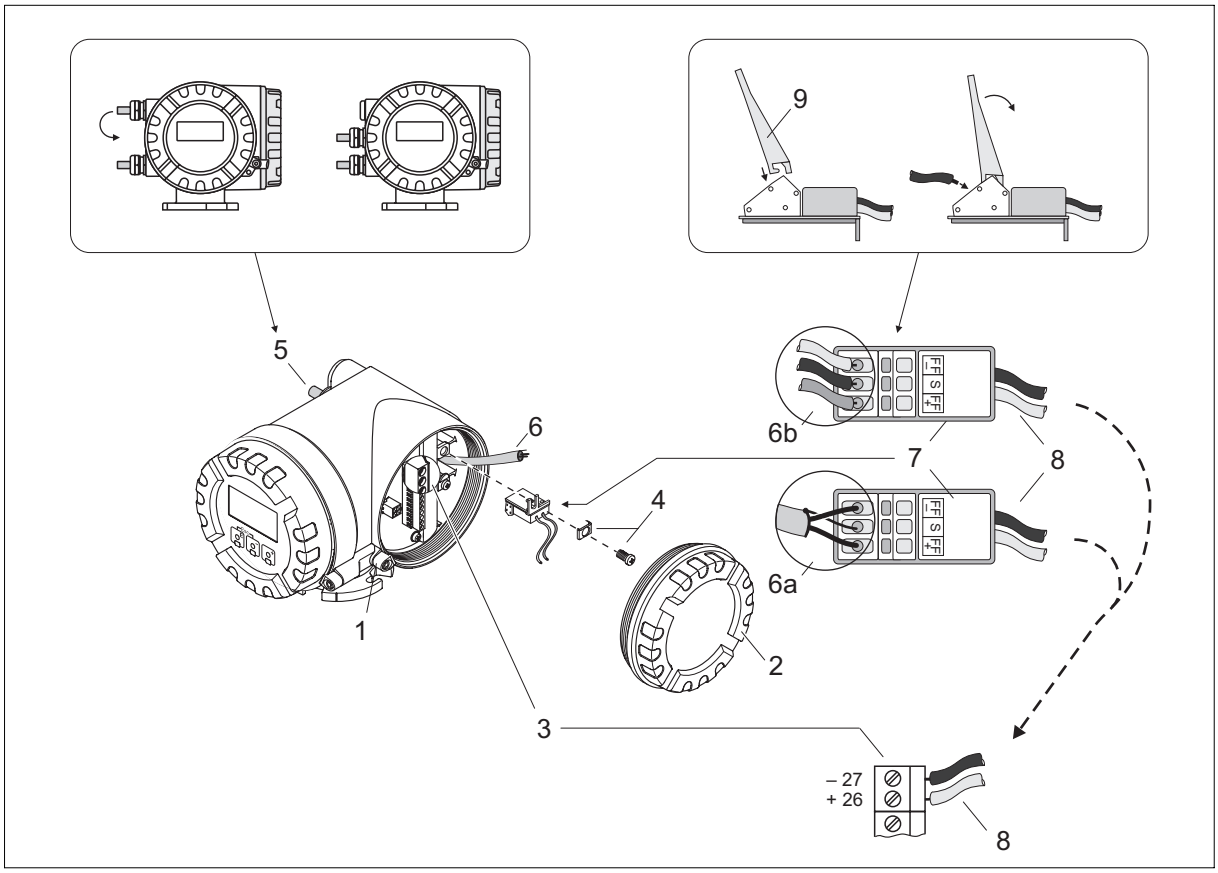
Installation of the FF-EMC-filter into a transmitter housing (compact version)

Set FF-EMC-filter	For transmitter	Fieldbus type	Housing type
71033547	■ Proline Promass 83 ■ Proline Promag 53 ■ Proline Prosonic Flow 93 ■ Proline t-mass 65	FOUNDATION Fieldbus	Compact version: Aluminum field housing, IP 67 NEMA4X, for non-Ex, Class I Div. 2

The FF-EMC-filter is used to facilitate one-sided shielding of the measuring device.

⚠ Warning!

- Risk of electric shock! Electric shock protection no longer applies once the housing cover is opened. The power supply must be switched off before you open the measuring device.
- All the safety instructions and warnings outlined in the Operating Instructions pertaining to the device must also be observed when installing the FF-EMC-filter!



1 *Housing cover safety clasp*
2 *Housing cover*
3 *Transmitter terminal block*
4 *Ground terminal/ground terminal screw*
5 *Glands of cable entries/fieldbus connector*
6/6a *Fieldbus cable: Wiring for fieldbus cable with cable gland*
6/6b *Fieldbus cable: Wiring of cables of fieldbus connector*
7 *FF-EMC-filter*
8 *Signal cable of the FF-EMC-filter*
9 *Actuating tool for the terminal block of the FF-EMC-filter*

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Endress+Hauser
People for Process Automation

Procedure when wiring the FF-EMC-filter for fieldbus cables with cable glands

- Release the Allen screw of the safety clasp (1) and unscrew the housing cover (2) from the transmitter housing.
- Only if the measuring device is already wired:
  – Release the cable gland (5) of the fieldbus cable.
  – Release the fieldbus cable from the terminal block (3, terminal 26/27).
  – Release the cable shield from the ground terminal (4).
  – Carefully remove the fieldbus cable (6) from the transmitter housing.
- Remove the upper cable gland (5).
- Remove the dummy plug of the central cable entry.
- Mount the cable gland in the **central** and the dummy plug in the upper cable entry of the transmitter housing.
  ☝ Caution!
  The transmitter housing has to be resealed airtight with the dummy plug.
  If seals are damaged, they should only be replaced with genuine Endress+Hauser parts.
- Route the fieldbus cable (6) through the **central** cable gland into the measuring device.
- Wire the fieldbus cable (6) with the FF-EMC-filter (7) (see detail → 6a). In doing so, use the actuating tool (9) supplied:
  – FF– = Terminal FF–
  – Fieldbus cable shield = Terminal S (in doing so, keep the length of the shield **as short as possible**)
  – FF+ = Terminal FF+
- Guide the FF-EMC-filter (7) into the **central** cable shaft of the transmitter housing and, in doing so, pull the fieldbus cable back out of the transmitter housing.
- Secure the FF-EMC-filter (7) with the ground screw to the ground terminal (4).
- Wire the signal cable of the FF-EMC-filter (8) at the terminal block of the transmitter (3):
  – FF+ (red cable) = Terminal 26
  – FF– (blue cable) = Terminal 27
- Tighten the gland of the cable entry (5).
  ☝ Caution!
  The transmitter housing has to be resealed airtight with the cable gland.
- Screw the housing cover (2) onto the transmitter housing and tighten the safety clasp (1).
- Optional: Document the installation of the FF-EMC-filter at the device with the adhesive label supplied.

Procedure when wiring the FF-EMC-filter for fieldbus cables with fieldbus connector

- Release the Allen screw of the safety clasp (1) and unscrew the housing cover (2) from the transmitter housing.
- Only if the measuring device is already wired → Pull out the connector of the fieldbus cable (5).
- Release the cable from the terminal block (3, terminal 26/27).
- Release the cable from the ground terminal (4).
- Remove the fieldbus connector.
- Remove the dummy plug of the central cable entry.
- Mount the fieldbus connector in the **central** and the dummy plug in the upper cable entry of the transmitter housing.
  ☝ Caution!
  The transmitter housing has to be resealed airtight.
  If seals are damaged, they should only be replaced with genuine Endress+Hauser parts.
- Wire the cables with the FF-EMC-filter (7) (see detail → 6b). In doing so, use the actuating tool (9) supplied:
  – Blue cable = Terminal FF–
  – Green/yellow cable = Terminal S
  – Brown cable = Terminal FF+
- Guide the FF-EMC-filter (7) into the **central** cable shaft of the transmitter housing.
- Secure the FF-EMC-filter (7) with the ground screw to the ground terminal (4).
- Wire the signal cable of the FF-EMC-filter (8) at the terminal block of the transmitter (3):
  – FF+ (red cable) = Terminal 26
  – FF– (blue cable) = Terminal 27
- Screw the housing cover (2) onto the transmitter housing and tighten the safety clasp (1).
- Optional: Document the installation of the FF-EMC-filter at the device with the adhesive label supplied.