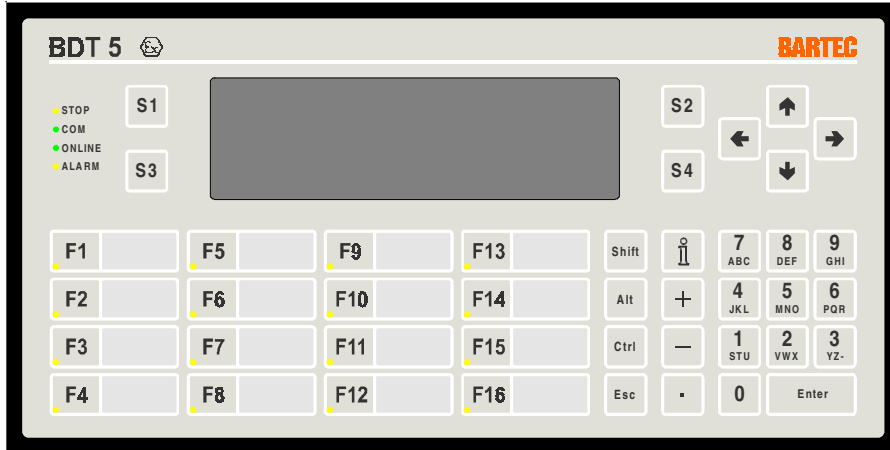




Text display BDT 5



Description

The BDT 5 text display is designed for use in hazardous areas. The text display BDT 5 is fitted with an intrinsically safe circuit supplied via the BSG 4 power supply module. The data interface between the hazardous areas and the non-explosive zones is implemented with the signal isolator module BSG 5.

For field bus applications (PROFIBUS-DP) there is instead used the signal isolator module BSG 6.

Modules

BSG 4



Power supply modul

BSG 5



Signal isolator modul serial

BSG 6



Signal isolator modul for PROFIBUS DP

Technical data

Display

- LCD (monochrome) transfective, 240 x 64 Pixel,
- optional: backlight is supplied about an additional power supply module BSG 4
- character size variable (4.5 up to 30 mm), maximum 8 lines
- Display size 134 x 40.4 mm

Dimensions

290 mm x 146 mm x 75 mm (h x l x w)

Weight

1.2 kg

Interfaces

- RS232-C, RS485/422 via BSG 5
- PROFIBUS DP via BSG 6

Keyboard

- 16 function keys able to be labelled, quadruple assignment
- alphanumeric key panel with cursor keys
- LED at all function keys

Additional Inputs

8 binary inputs Ex i

Explosion protection

Text display BDT 5

Ex protection type

Ex II 2G EEx ia IIC T4 (+60 °C), T3 (+70°C)

Certification

BVS 03 ATEX E394

Power supply module BSG 4

(Type 9143/10-120-200)
for power supply, optional additionally for backlight

Ex protection type

Ex II (2)G [EEx ib] IIC/IIB

Signal isolator module BSG 5

(Type 9185/11-45-10)
for serial coupling/connection

Ex protection type

Ex II (2)G/D [EEx ib] IIC/IIB

Signal isolator module BSG 6 in preparation

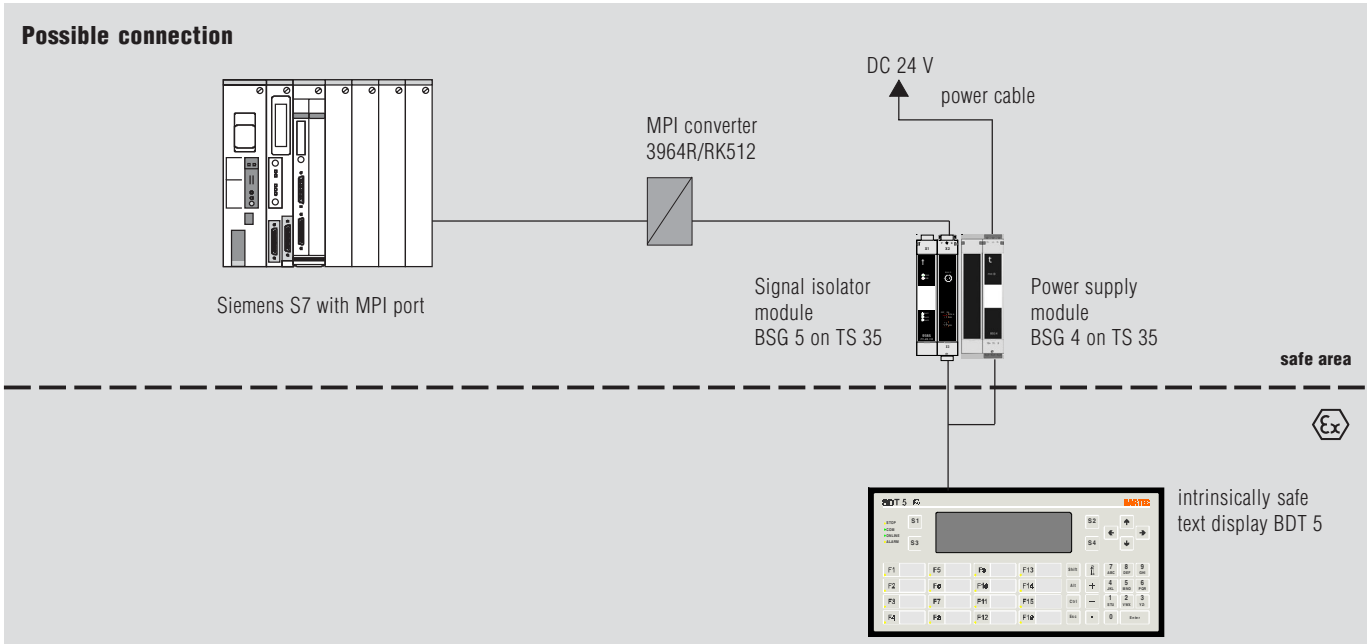
for PROFIBUS DP

Ex protection type

Ex II (2)G/D [EEx ib] IIC/IIB



Coupling to a Siemens S7 with PROFIBUS DP connection



Many reasons to choose the PLC mode

- various variable representations on the display without PLC preprocessing
- Processing of text variables
- Up to 6 000 display menus or input texts
- Up to 25 variables per display text
- Comfortable error processing (single bit per error configurable) priority/initial value/latest value
- Simultaneous histogram function
- Transfer of function keys as bit mask to the PLC
- Control of input menu via function key or the PLC
- User prompting and signaling with LEDs at the function keys
- Simple menu structure of texts and variables
- Menu-assisted text input via PC
- Online layout control during text generation with the PC
- Automatic generation of documentation during configuration

Selection chart

PLC	Description
Siemens S5	3964R/RK 512
Siemens S7	MPI or PROFIBUS DP with serveral electronic 3964R/RK 512 with CP
Omron	Hostlink (in preparation for)
Allen Bradley	DH 485
GE Fanuc	in preparation for
Mitsubishi	Fx, Fx0 und A-Serie (in preparation for)
Modbus RTU with serveral PLC	Master or Slave approx ABB, Cegelec, Foxboro, Yokogawa
ASCII	VT 100

Selection chart

Description	Code no.
Power supply module BSG 4	0
Signal isolator module BSG 5	1
Signal isolator module BSG 6	2

➔ **Complete order no. 17-25TC-A00**

Please enter code number.

Order no.

Text display BDT 5 17-21TA-1013