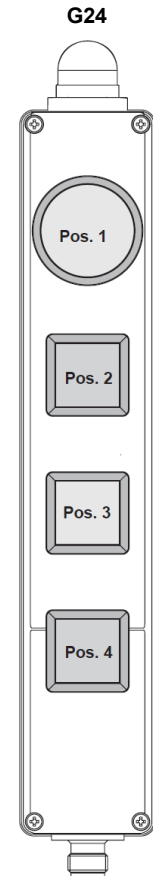


Data-Layout FB-Interface

Communication directions: Request byte: From PLC to local safety switchgear
Response byte: From local safety switchgear to PLC

Bit assignment: **BDF200-FB**

FB Data	FB Request byte (OUTPUT byte of the PLC)	FB Response byte (INPUT byte of the PLC)
Bit 0:	---	E-STOP not actuated
Bit 1:	LED G24 red on top	NO contact from Pos. 2
Bit 2:	LED G24 green, blue, yellow on top	NC contact from Pos. 2
Bit 3:	LED illuminated push button Pos. 2	NO contact from Pos. 3
Bit 4:	LED illuminated push button Pos. 3	NC contact from Pos. 3
Bit 5:	LED illuminated push button Pos. 4	NO contact from Pos. 4
Bit 6:	---	Error warning
Bit 7:	Reset Error	Error (OSSD switched OFF)



SFB field bus data

PLC output data for BDF200-FB (PLC → SFB → BDF200-FB)

- FB-Interface output data

SFB device port	PROFINET O-Address (4 Byte)	EtherNet/IP Assembly A 152 (6 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 0	Functional data Tag: :O.Data[1].x	FB-I outputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 1	Functional data Tag: :O.Data[2].x	FB-I outputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 2	Functional data Tag: :O.Data[3].x	FB-I outputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 3	Functional data Tag: :O.Data[4].x	FB-I outputs Label: Port X7.x

PLC input data from BDF200-FB (BDF200-FB → SFB → PLC)

- FB-Interface input data

SFB device port	PROFINET I-Address (6 Byte)	EtherNet/IP Assembly A 151 (10 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 2	Functional data Tag: :I.Data[4].x	FB-I inputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 3	Functional data Tag: :I.Data[5].x	FB-I inputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 4	Functional data Tag: :I.Data[6].x	FB-I inputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 5	Functional data Tag: :I.Data[7].x	FB-I inputs Label: Port X7.x



Detailed information about the device, the field bus data and bit assignment can be found in the "Operating instruction BDF200-FB" at products.schmersal.com.

Data-Layout FB-Interface

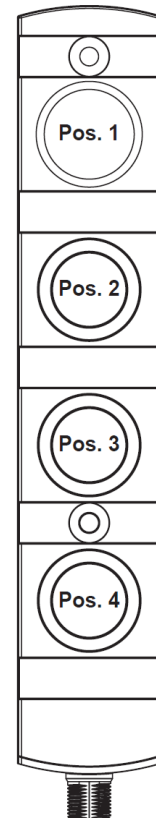
Communication directions: Request byte: From PLC to local safety switchgear
Response byte: From local safety switchgear to PLC

Bit assignment: **BDF40-FB-10-NH-LT-LT-LT**

FB Data	FB Request byte (OUTPUT byte of the PLC)	FB Response byte (INPUT byte of the PLC)
Bit 0:	---	E-STOP not actuated
Bit 1:	LED in the E-STOP Pos. 1	---
Bit 2:	---	---
Bit 3:	LED illuminated push button Pos. 2	NO contact from Pos. 2
Bit 4:	LED illuminated push button Pos. 3	NO contact from Pos. 3
Bit 5:	LED illuminated push button Pos. 4	NO contact from Pos. 4
Bit 6:	---	Error warning
Bit 7:	Reset Error	Error (OSSD switched OFF)

Bit assignment: **BDF40-FB-10-LT-LT-LT-LT**

FB Data:	FB Request byte (OUTPUT byte of the PLC)	FB Response byte (INPUT byte of the PLC)
Bit 0:	---	---
Bit 1:	---	---
Bit 2:	LED illuminated push button Pos. 1	NO contact from Pos. 1
Bit 3:	LED illuminated push button Pos. 2	NO contact from Pos. 2
Bit 4:	LED illuminated push button Pos. 3	NO contact from Pos. 3
Bit 5:	LED illuminated push button Pos. 4	NO contact from Pos. 4
Bit 6:	---	Error warning
Bit 7:	Reset Error	Error



SFB field bus data

PLC output data from BDF40-FB (PLC → SFB → BDF40-FB)

- FB-Interface output data

SFB device port	PROFINET O-Address (4 Byte)	EtherNet/IP Assembly A 152 (6 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 0	Functional data Tag: :O.Data[1].x	FB-I outputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 1	Functional data Tag: :O.Data[2].x	FB-I outputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 2	Functional data Tag: :O.Data[3].x	FB-I outputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 3	Functional data Tag: :O.Data[4].x	FB-I outputs Label: Port X7.x

PLC input data from BDF40-FB (BDF40-FB → SFB → PLC)

- FB-Interface input data

SFB device port	PROFINET I-Address (6 Byte)	EtherNet/IP Assembly A 151 (10 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 2	Functional data Tag: :I.Data[4].x	FB-I inputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 3	Functional data Tag: :I.Data[5].x	FB-I inputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 4	Functional data Tag: :I.Data[6].x	FB-I inputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 5	Functional data Tag: :I.Data[7].x	FB-I inputs Label: Port X7.x



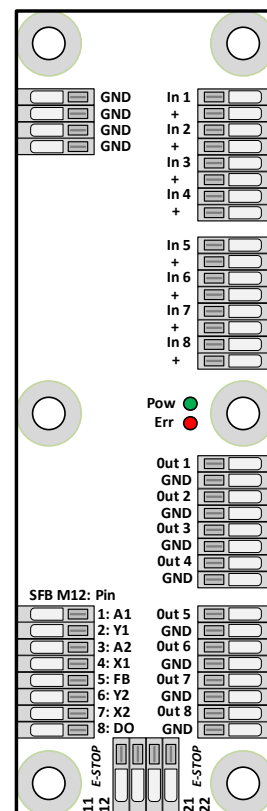
Detailed information about the device, the field bus data and bit assignment can be found in the "Operating instruction BDF40-FB" at products.schmersal.com.

Data-Layout FB-Interface

Communication directions: Request byte: From PLC to local safety switchgear
Response byte: From local safety switchgear to PLC

Bit assignment: **FB-PE-8I-8O**

FB Data	FB Request byte (OUTPUT byte of the PLC)	FB Response byte (INPUT byte of the PLC)
Bit 0:	OUTPUT 1 port extender	INPUT 1 port extender
Bit 1:	OUTPUT 2 port extender	INPUT 2 port extender
Bit 2:	OUTPUT 3 port extender	INPUT 3 port extender
Bit 3:	OUTPUT 4 port extender	INPUT 4 port extender
Bit 4:	OUTPUT 5 port extender	INPUT 5 port extender
Bit 5:	OUTPUT 6 port extender	INPUT 6 port extender
Bit 6:	OUTPUT 7 port extender	INPUT 7 port extender
Bit 7:	OUTPUT 8 port extender	INPUT 8 port extender



SFB field bus data

PLC output data for FB-PE-8I-8O (PLC → SFB → FB-PE-8I-8O)

- FB-Interface output data

SFB device port	PROFINET O-Address (4 Byte)	EtherNet/IP Assembly A 152 (6 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 0	Functional data Tag: :O.Data[1].x	FB-I outputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 1	Functional data Tag: :O.Data[2].x	FB-I outputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 2	Functional data Tag: :O.Data[3].x	FB-I outputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 3	Functional data Tag: :O.Data[4].x	FB-I outputs Label: Port X7.x

PLC input data from FB-PE-8I-8O (FB-PE-8I-8O → SFB → PLC)

- FB-Interface input data

SFB device port	PROFINET I-Address (6 Byte)	EtherNet/IP Assembly A 151 (10 Byte)	EtherCAT Module 3 (4 I + 4 O Bytes)
X4	Slot: 1 3 Byte: n + 2	Functional data Tag: :I.Data[4].x	FB-I inputs Label: Port X4.x
X5	Slot: 1 3 Byte: n + 3	Functional data Tag: :I.Data[5].x	FB-I inputs Label: Port X5.x
X6	Slot: 1 3 Byte: n + 4	Functional data Tag: :I.Data[6].x	FB-I inputs Label: Port X6.x
X7	Slot: 1 3 Byte: n + 5	Functional data Tag: :I.Data[7].x	FB-I inputs Label: Port X7.x



Detailed information about the device, the field bus data and bit assignment can be found in the "Operating instruction FB-PE-8I-8O" at products.schmersal.com.