

Setting the DIP switches when OZD Profi...a (1,5Mbit/s) is optically combined with OZD Profi 12M...

In Profibus networks built with „OZD Profi...a“ you can use modules from the new „OZD Profi 12M...“ product family as expansion devices (or as substitutes for faulty „OZD Profi...a“) provided that the "OZD Profi 12M..." is configured for Compatibility Mode. Based on the configuration of the „OZD Profi...a“ you will find the right DIP switch settings for the „OZD Profi 12M..." with the help of the following table.

Glass fiber - Modules:

OZD Profi G3a.../ G4a...		
Meaning of the DIP switches on the OZD Profi G3a.../G4a... (1,5Mbit/s)	DIP	Function of the OZD Profi G3a.../G4a...
S1 = Mode	S1 = 0	Mode 0
	S1 = 1	Mode 1
S2 = Redundancy	S2 = 0	Redundancy function OFF
	S2 = 1	Redundancy function ON
S3 = Termination	S3 = 0	CH2 not terminated
	S3 = 1	CH2 terminated
S4 = Termination	S4 = 0	CH2 not terminated
	S4 = 1	CH2 terminated
S5 = Opt. Power / Dist.	S5 = 0	Network configuration Standard
	S5 = 1	Network configuration Extended
S6 = Opt. Power	S6 = 0	Without function
	S6 = 1	Without function



OZD Profi 12M G... in Compatibility Mode	
DIP	Function of the OZD Profi 12M G... is equivalent to:
S1 = 0	Mode 0
S1 = 1	Mode 1
S2 = 0	Redundancy function OFF
S2 = 1	Redundancy function ON
---	Not relevant, as only one RS485-port (CH1) exists.
---	Not relevant, as only one RS485-port (CH1) exists.
S3 = 1	Network configuration Standard
S3 = 0	Network configuration Extended

S7 = 1	Compatibility Mode ON
S0, S4 = 0 S5, S6 = 0	Without function, recommended position: 0

Please note:

- the product family OZD Profi 12M... has only one electrical (RS 485) bus connection ==> CH2 at OZD Profi 12M... is an optical port!
- in Compatibility Mode the behavior of the electrical and optical ports is identical to OZD Profi...a!

OZD Profi G3a.../ G4a...	
CH1	RS 485, 9-pole Sub-D
CH2	RS 485, terminal block
CH3	Fiber port
CH4	Fiber port, only available on the "...G4a"

OZD Profi 12M G...	
CH1	RS 485, 9-pole Sub-D
CH2	Fiber port
CH3	Fiber port, only available on the "...G 12"

Setting the DIP switches when OZD Profi...a (1,5Mbit/s) is optically combined with OZD Profi 12M...

In Profibus networks built with „OZD Profi...a“ you can use modules from the new „OZD Profi 12M...“ product family as expansion devices (or as substitutes for faulty „OZD Profi...a“) provided that the "OZD Profi 12M..." is configured for Compatibility Mode. Based on the configuration of the „OZD Profi...a“ you will find the right DIP switch settings for the „OZD Profi 12M..." with the help of the following table.

Plastic fiber - modules:

OZD Profi P3a/ P4a		
Meaning of the DIP switches on the OZD Profi P3a/P4a (1,5Mbit/s)	DIP	Function of the OZD Profi P3a/P4a
S1 = Mode	S1 = 0	Mode 0
	S1 = 1	Mode 1
S2 = Redundancy	S2 = 0	Redundancy function OFF
	S2 = 1	Redundancy function ON
S3 = Termination	S3 = 0	CH2 not terminated
	S3 = 1	CH2 terminated
S4 = Termination	S4 = 0	CH2 not terminated
	S4 = 1	CH2 terminated
S5 = Opt. Power / Dist.	S5 = 0	CH3: Opt. Power: Standard
	S5 = 1	CH3: Opt. Power: HIGH
S6 = Opt. Power	S6 = 0	CH4: Opt. Power: Standard
	S6 = 1	CH4: Opt. Power: HIGH



OZD Profi 12M P... in Compatibility Mode	
DIP	Function of the OZD Profi 12M P... is equivalent to:
S1 = 0	Mode 0
S1 = 1	Mode 1
S2 = 0	Redundancy function OFF
S2 = 1	Redundancy function ON
---	Not relevant, as only one RS485-port (CH1) exists.
---	Not relevant, as only one RS485-port (CH1) exists.
S5 = 0	CH2: Opt. Power: Standard
S5 = 1	CH2: Opt. Power: HIGH
S6 = 0	CH3: Opt. Power: Standard
S6 = 1	CH3: Opt. Power: HIGH
S7 = 1	Compatibility Mode ON
S0, S3 = 0 S4 = 0	Without function, recommended position: 0

Please note:

- the product family OZD Profi 12M... has only one electrical (RS 485) bus connection ==> CH2 at OZD Profi 12M... is an optical port!
- in Compatibility Mode the behavior of the electrical and optical ports is identical to OZD Profi...a!

OZD Profi P3a/ P4a	
CH1	RS 485, 9-pole Sub-D
CH2	RS 485, terminal block
CH3	Fiber port
CH4	Fiber port, only available on the "...P4a"

OZD Profi 12M P...	
CH1	RS 485, 9-pole Sub-D
CH2	Fiber port
CH3	Fiber port, only available on the "...P 12"