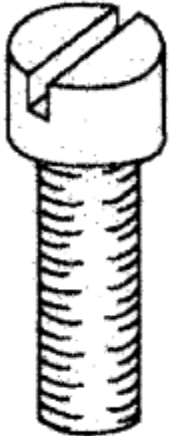


IBS RT 24 DIO 16/16-T



16 inputs, 24 V DC, 1-wire connection and
 16 outputs, 24 V DC, 500 mA, 2-wire connection
 Design width 125



M 3



8

A V

(IEC)	rigid	flexible		I	U
[mm ²]	solid	stranded	AWG	[A]	[VAC]

Connection data

SMSTB	0.2-2.5	0.2-2.5	24-12	12	250
FK-MSTBP	0.2-1.5	0.2-1.5	24-14	12	250

Description	Type	Order No.	Pcs.	Pkt.
Digital input/output module, protection type IP 20, without connector set	IBS RT 24 DIO 16/16-T	27 53 60 1		1
Accessories				
COMBICON connector set,				
- with screw-clamp connection	IBS RT PLSET SMSTB	18 50 43 7		1
- with spring-clamp connection	IBS RT PLSET FK-MSTBP	18 50 42 4		1
Replacement labeling tag,	IBS RT LABEL DIO	27 21 86 6		10

Technical data**Interfaces**

INTERBUS remote bus (incoming/outgoing) 9-pos. D-SUB

Power supply

Power supply voltage

- Nominal value 24 V DC
- Ripple 2.4 V_{pp}
- Allowable range 20 to 30 V DC (including ripple)

Current consumption 100 mA

Electrical isolation

Incoming remote bus/outgoing remote bus 500 V AC test voltage

Module electronics/inputs no

Module electronics/outputs no

Among the channel groups no

INTERBUS data

Max. distance to the next remote bus device 400 m

Local diagnostics

Operating voltage display (ready) LED green

Power supply each group LED green

Remote bus active (BA) LED green

Remote bus connection OK (RD) LED red

Remote bus disabled (RC) LED green

Status indicator each input/output LED green

Short-circuit or overload, per output LED red

Diagnostics messages to the controller

Short-circuit; overload of an output yes

Inputs

Number of inputs 16

Number of input groups 1

Connection method 1-wire (optionally 2, 3, 4-wire)

Input current per channel 6 mA at 24 V DC

Input wiring IEC 1131-2 Type 1 (not for 2-wire proximity switches)

Allowable input voltage for

- Nominal value 24 V DC
- "1" signal + 15 to + 30 V DC
- "0" signal – 30 to + 5 V DC

Delay at signal change

- From "0" to "1" typ. 3 ms
- From "1" to "0" typ. 3 ms

Outputs

Number of outputs 16

Number of output groups 2

Connection type 2-wire (optionally 3-wire)

Switching voltage (without external load) U_s (1.2) = 24 V DC, 100 mA all outputs "1"

Switching current (at max. 60 °C)

– Max. per output	500 mA
– Min. per output	> 0 A
– Max. per group	4 A
– Max. per module	8 A
Allowable load per output with	
– Resistive load	12 W, max. 100 Hz at 0.5 A
– Inductive load	12 VA, max. 0.3 Hz at 0.5 A
– Lamp load	1.2 W, max. 8 Hz

General data

Degree of protection	IP 20
Power dissipation	4 W
Weight	240 g
Conversion to optical fiber	yes, OPTOSUB-PLUS ..

Dimensional drawing