

IP 20 distributed inputs/outputs

Distributed I/O system for network or fieldbus
Advantys OTB

Applications	Data exchange between a control source (PLC, variable speed drives, PC, etc.) and the inputs and outputs
Type of bus or network	Ethernet TCP/IP network



Nature of bus or network	Mixed local industrial network	
Structure	Physical interface	10/100 BASE-T
	Access method	CSMA-CD
	Transfer rate	10/100 Mbits/s

Medium	Shielded dual twisted pair via Ethernet ConneXium cabling system	
Configuration	Number of devices	256 max. per network segment. Unlimited using switches.
	Maximum length (distance)	500 m according to standard 802.3 1000 m with ConneXium cabling system
Digital inputs/outputs	Number of I/O	20 I/O
	Number of inputs	12 --- 24 V sink/source (PNP or NPN) inputs
	Number of outputs	6 relay outputs and 2 --- 24 V transistor, source (PNP) outputs

Type of connection	Removable screw terminal blocks
---------------------------	---------------------------------

Input/output expansion	Number of expansion modules	7 digital or analogue input/output modules, or connection accessories
	Maximum I/O configuration	With interface module: 132 with screw terminal I/O expansion module, 244 with type HE10 connector I/O expansion module; up to 48 analogue channels

Supply voltage	--- 24 V supply
-----------------------	-----------------

Integrated I/O functions	Counting, 5 kHz	2 channels, 32 bits (0...4,294,967,296 points) - dedicated digital inputs - up/down counting with preset value
	Counting, 20 kHz	2 channels, 32 bits (0...4,294,967,296 points) - dedicated digital inputs/outputs - up/down counting, up counting, down counting, frequency meter
	Pulse generator, 7 kHz	2 PWM function channels (output with pulse width modulation) and PLS function (pulse generator output)

Type	OTB 1E0 DM9LP
-------------	----------------------

Page	14510/5
-------------	---------

Data exchange between a control source (PLC, variable speed drives, PC, etc.) and the inputs and outputs

CANopen bus	Modbus Series network
-------------	-----------------------



CAN fieldbus	Local RS 485 network
ISO 11898	RS 485
CSMA-MA, multimaster	Master-slave
10...1000 Kbits/s depending on distance	1.2...38.4 kbauds
Shielded dual twisted pair	Dual twisted pair
127 slaves	32 slaves per segment
From 30 m (1 Mbits/s) to 1000 m (> 50 Kbits)	Up to 1000 m
20 I/O	
12 --- 24 V sink/source (PNP or NPN) inputs	
6 relay outputs and 2 --- 24 V transistor, source (PNP) outputs	
Removable screw terminal blocks	
7 digital or analogue input/output modules, or connection accessories	
With interface module: 132 with screw terminal I/O expansion module, 244 with type HE10 connector I/O expansion module; up to 48 analogue channels	
--- 24 V supply	
2 channels, 32 bits (0...4,294,967,296 points) - dedicated digital inputs - up/down counting with preset value	
2 channels, 32 bits (0...4,294,967,296 points) - dedicated digital inputs/outputs - up/down counting, up counting, down counting, frequency meter	
2 PWM function channels (output with pulse width modulation) and PLS function (pulse generator output)	
OTB 1C0 DM9LP	OTB 1S0 DM9LP
14510/5	14510/5