## **90-T1-CAN**

12 digital inputs, high-speed counter/shaft encoder input, 12 pnp outputs, I/O expansion port, RS232 plus CANbus

Power supply	24VDC
Permissible range	20.4 to 28.8VDC
Maximum current consumption	90mA @ 24VDC
Typical power consumption	2W @ 24VDC
Digital inputs	12 pnp (source) inputs
Nominal input voltage	24 VDC
Input voltage	< 5 VDC for Logic '0'
	> 15 VDC for Logic '1'
Input current	3 mA @ 24 VDC
Input impedance	8.4kΩ
Response time	(except Input#10 and Input#11)
'0' to '1'	5 mS
'1' to '0'	10 mS
Galvanic isolation	None
Input cable length	Up to 100 meters, unshielded
High-speed counter	Input#11 can be used as either
	a digital input, or as a counter
	<ul><li>Input#10 can be used as either</li></ul>
	a digital input or as a counter reset
	<ul><li>Inputs#10 and #11 can also be</li></ul>
·	used as a shaft encoder
Resolution	16-bit
Input frequency	Input#10 and input#11 : 5kHz max.
Minimum pulse width	Input#10 and input#11 : 80μs
Digital outputs	12 pnp (source) outputs, 24 VDC
Output type	P-MOSFET (open drain)
Isolation	None
Output current	0.5A max.
	Total current: 3A max.
Max. frequency	1kHz (resistive load)
	0.5Hz (inductive load)
Short circuit protection	Yes
Display	STN, LCD display
Illumination	LED yellow-green backlight
Display size	1 line, 16 characters long
Character size	5 x 7 matrix, 3.07 x 5.73mm

Keypad	Sealed membrane
Number of keys	15
PLC program	2048 words
Bits/Coils	256
Integers/Registers	256
Timers	64
Execution time	12µsec. for bit operations
HMI displays	80 user-designed displays
HMI variables	50 HMI variables are available to conditionally display and modify text, numbers, dates, times & timer values. The user can also create a
	list of up to 120 variable text displays, totaling up to 2K.
	totaling up to zrt.
RS232 serial port	
Programming	Download user program
Network option	Via RS485/RS232 converter
CANbus	Up to 64 nodes
Baud rate range	1Kbps - 1mbps
Cable length	25m - 1000m
	Up to 64 additional I/Os, including:
I/O expansion port	digital & analog I/Os, RTD and more.
Miscellaneous	Date and time-year 2000 compliant,
Clock (RTC)	with typical 7 years battery backup
Weight	260g (9.1 oz.)
Temperature	Operational 0 to +50°C
	Storage -20 to +60°C
Mounting method	DIN-rail mounted (IP20)
	Panel mounted (IP65)



