90-R1-CAN 10 digital inputs. 1 angles 1

10 digital inputs, 1 analog input, high-speed counter/shaft encoder input, 6 relay outputs, I/O expansion port, RS232 plus CANbus

-	0.07/20
Power supply	24VDC
Permissible range	20.4 to 28.8VDC
Maximum current consumption	140mA @ 24VDC
Typical power consumption	3.2W @ 24VDC
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Digital inputs	10 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#8 and Input#9)
'0' to '1'	5 mS
<u>'1' to '0'</u>	10 mS
Galvanic isolation	None
Input cable length	Up to 100 meters, unshielded
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High-speed counter	Input#9 can be used as either a
	digital input, or as a counter
	Input#8 can be used as either a
	digital input or as a counter reset
	 Inputs#8 and #9 can also be used
	as a shaft encoder
Resolution	16-bit
Input frequency	Input#8 and input#9 : 5kHz maximum
Minimum pulse width	Input#8 and input#9 : 80µs
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Analog input	10-bit, multi-range input:
	0-5V
	0-10V
	0-20mA, 4-20mA
Conversion method	Successive approximation
Input impedance	>100kΩ at Voltage
input impedance	250Ω at current
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Galvanic isolation	None
Resolution (except at 4-20mA)	10-bit (1024 units)
Resolution at 4-20mA	204 to 1024 (820 units)
Conversion time	Synchronized to scan time
Absolute max. rating	± 15V
Full scale error	± 2 LSB
Linearity error	± 2 LSB
Linearity Citor	12200
Digital outputs	6 relay outputs, 230VAC / 24 VDC
Output type	SPST-NO relay
Type of relay	Takamisawa JY-24H-K, or
Type of Telay	NAIS (Matsushita) JQ1AP-24V or
	OMRON G6B - 1114P-24VDC

By relay
5A max. (resistive load)
1A max. (inductive load)
10Hz
External precautions required
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STN, LCD display
LED yellow-green backlight
1 line, 16 characters long
5 x 7 matrix, 3.07 x 5.73mm
Sealed membrane
15
2048 words
256
256
64
12µsec. for bit operations
80 user-designed displays
50 HMI variables are available to condi-
tionally 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.
Download user program
Via RS485/RS232 converter
Lin to C4 nodes
Up to 64 nodes
1Kbps - 1Mbps 25m - 100m
25m - 100m
Up to 64 additional I/Os, including:
digital & analog I/Os, RTD and more.
digital & arialog I/Os, KTD and more.
Date and time-year 2000 compliant,
with typical 7 year battery back-up
280g (9.8 oz.)
280g (9.8 oz.) Operational 0 to +50°C
280g (9.8 oz.)





