

Enhancement Of S-Series Door Access (ES)

Designed for superior flexibility



ES Reader Technical Specifications

Content					Description
Reader Models	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ES series c/w 16 keys polycarbonate keypad
Reading Range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	± 5cm
Housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ABS casing
Display Unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphic LCD (Blue light)
Operating Frequency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.8MHZ
WatchDog	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Available
Operating Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 - 65°C
Baud Rate (Reader to Controller)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19200bps
Communication Port Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LED indicators
Buzzer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onboard
Input Voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Vdc typical
Input Voltage Tolerance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Vdc to 13.8 Vdc
Rated Current Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1A
Total Power Consumption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Vdc @ 1A
Type Of Reader Technology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* Wiegand 26 bit (optional)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* Magnetic signal - ABA track 2 format ISO standard (125KHZ)
Communication Cable Usage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Twisted pair RS485 compatible

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ES Controller Technical Specifications

Content	Description
Controller Models	ES (16 doors per controller)
Housing	Metal casing
Controller Display Unit	20 character x 2 rows liquid crystal display with backlight
Microprocessor Model	Philips 16 bits processor
Operating Frequency	24MHZ crystal clock
EPROM/ Flash	128KB
RAM	SRAM 1MB
WatchDog	Available
Battery backup For Memory	3.6 Vdc onboard rechargeable backup battery
Type Of Storage System Used	Static RAM (with backup battery)
Operating Temperature	0 - 65°C
Baud Rate (PC to CTR)	9600bps
Baud Rate (CTR to Reader Interface)	19200bps
Max Storage Capability	Standard 10,000 cards user
Max Event Transaction	Standard 10,000
Communication Port Status	Tx/ Rx LED indicators
Buzzer	Onboard
EMC Protection	2 free contact relay with onboard back surge protection
DIP Switch For Address Setting	4 way
Input Voltage & Rated Current Input	12 Vdc typical, 1A
Input Voltage Tolerance	12 Vdc to 13.8 Vdc
Humidity	10% to 90% non-condensing
Total Door Can Be Connected	Max 16 doors
Card Format Support	* Wiegand 26 bit (Optional) * Magnetic signal - ABA track 2 format ISO standard With polarity protection
Power Connector	1KM
Max Length Of Communication RS 485	i. Max 6 communication UART
UART	ii. Onboard RS 232
Communication Cable Type	Twisted pair RS 485 compatible
Communication Cable Usage	i. 1 pair RS 485 from PCI to controller ii. 1 pair RS 485 from controller to reader interface
Input/ Output	1 auxiliary output & 1 general purpose output
Timer Setting	255 sets (3 intervals each)
Time Zone	255 sets (7 days + 2 holidays each)
Card user Access Level	255 sets
Holidays	1 type of 50 dates each programmable holiday
Multi-door Anti-passback Feature	Function available for all door
Access Operation	i. Card mode only ii. PIN mode only iii. Card + PIN mode only
Continuos Card Swiping Facility When Door Is Open	Function available
Log file supporting through software	Function available
Programming Mode	Menu driven programming & software programming
Controller Programming Mode Security	3 passwords level (no access card needed) * Technical password (diagnostic only) * User password (arming & disarming only) * Master password (highest privilege) * Auto lock release mode * Emergency PIN
Emergency Mode	
Local PIN	2 sets PIN for each door (both PIN time zone control)
Common PIN	10 sets PIN (each PIN time zone control)
Duress Alarm	Available