Enhancement Of S-Series Door Access (ES)

Designed for superior flexibility

ES Reader Technical Specifications

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

Specification are subjected to change without notification.

Enhancement Of S-Series Door Access (ES)

Designed for superior flexibility

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 crytal 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
Power Connector	With polarity protection
Max Length Of Communication RS485	1KM
UART	i. Max 6 communication UART
	ii. Onboard RS232
Communication Cable Type	Twisted pair RS485 compatible
Communication Cable Usage	i. 1 pair RS485 from PCI to controller
	ii. 1 pair RS485 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 ony
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 ony)
	* Master pasword (highest privilege)
Emergency Mode	* Auto lock release mode
	* Emergency PIN
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