

Manual Swipe Magnetic Card Reader

3S4YR-HNF

Peripheral-type, Compact, Manually Operated Card Reader

- Connects to the PC RS-232C port just like any other peripheral
- Sits conveniently next to the PC keyboard
- Easy-to-operate protocol
- Wide range of configurations available
- No external power supply required



Ordering Information

Magnet	ic tracks	supporte	d (R, R/W)							
1	2	3	Center	JISII	IC contact	Interface	Communication (See Note 1,2,3)	Cover	Cable	Color	Part Number
R	R	R	—	_	No	RS 232C	Unidirectional	Yes	Yes	lvory	3S4YR-HNF1
R	R	R	—	_	No	RS 232C	Bidirectional	Yes	Yes	lvory	3S4YR-HNF1-002
	R		—		No	RS 232C	Unidirectional	Yes	Yes	lvory	3S4YR-HNF4
	R		—	_	No	RS 232C	Bidirectional	Yes	Yes	lvory	3S4YR-HNF4-002
R	R		—		No	RS 232C	Unidirectional	Yes	Yes	lvory	3S4YR-HNF6
R	R		—		No	RS 232C	Bidirectional	Yes	Yes	lvory	3S4YR-HNF6-002
	R	R	—	_	No	RS 232C	Unidirectional	Yes	Yes	lvory	3S4YR-HNF7
	R	R	—		No	RS 232C	Bidirectional	Yes	Yes	Ivory	3S4YR-HNF7-002
	—		—	R	No	RS 232C	Bidirectional	Yes	Yes	lvory	3S4YR-HNF2-002
	—		—	R	No	RS 232C	Bidirectional	No	No	lvory	3S4YR-HNF2-012
	R		—	R	No	RS 232C	Unidirectional	Yes	Yes	lvory	3S4YR-HNF24
—	R	—	—	R	No	RS 232C	Bidirectional	Yes	Yes	Ivory	3S4YR-HNF24-002
_	R	_	—	R	No	RS 232C	Bidirectional	No	No	Ivory	3S4YR-HNF24-012
R	R	—	—	R	No	RS 232C	Bidirectional	Yes	Yes	Ivory	3S4YR-HNF26-002
R	R	_	—	R	No	RS 232C	Bidirectional	No	No	Ivory	3S4YR-HNF26-012

Note: 1. Communication protocol comes in two types: Unidirectional = response only, and Bidirectional = command/response

2. For information regarding keyboard wedge interface models, contact your Omron representitive.

3. Bidirectional models derive power from the keyboard port, unidirectional models derive power directly from the RS-232 port.

TYPICAL APPLICATIONS

POS Systems

Credit Card Readers

ID Card Checkers

• PC Peripherals

Specifications _____

Part number		HNF			
Recommended card ty	ре	ISO 7810, 7811-1 to -5, 7812 & 7813			
Recording method		F2F			
Swipe direction		Reads in either direction			
Communication protoc	ol	Unidirectional (response only) or Bidirectional (command/response)			
Card feeding speed		100 to 1,000 mm/sec. (200 to 1,000 mm/sec. for 3 track stripe card)			
Interface connector		D-sub 9-pin (female) Bidirectional units also have PS/2 connector (mini-din 6-pin)			
Mounting location		Indoors; away from rain, sunlight and dust			
Power supply		Unidirectional: powered from RS-232C port Bidirectional: powered from keyboard port			
Current consumption		Unidirectional, 12 mA dual track, 16 mA triple track			
Ambient temperature	Operation	0 to 45°C (32 to 113°F)			
	Storage	-15 to 60°C (5 to 140°F)			
Ambient humidity	Operation	30 to 85% RH, with no condensation and absolute air humidity of 23 g/m ³ or less			
	Storage	20 to 90% RH, with no condensation and absolute air humidity of 40 g/m ³ or less			
Vibration endurance		10 to 150 Hz, single vibration width of 0.15 mm or an acceleration of 19.6 m/s ² (2 G)			
Shock endurance		196 m/s ² (20 G)			
Cable length		1500 mm (59.06)			
Dimensions		100 L x 38.6 W x 35.2 H mm (3.94 L x 1.52 W x 1.39 H in)			
Weight		Approx. 185 g (6.53 oz)			
Service life		300,000 passes minimum			

I/O Information _____

■ INTERFACE CONNECTOR

D-Sub 9-pin (female). Bidirectional uses 6-pin mini-din (male and female)

■ INTERFACE METHOD

Conforms to EIA RS-232C Transmission speed: 9600 bps Communication method: Half-duplex Synchronizing method: Start-stop synchronization Data bit length: 8 bits Error detection: Even parity Stop bit: 1 bit

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PIN ASSIGNMENT

(View from PC side)

Pin number	Signal	Description	Input/output
1	CF (DCD)	Loop-back of RTS	Input
2	BB (RXD)	Card data	Input
3	BA (TXD)	Command data (bidirectional models)	Output
4	CD (DTR)	Always ON at PC side	Output
5	AB (SG)	Signal ground	—
6	CC (DSR)	Data Set Ready	Input
7	CA (RTS)	Request to send	Output
8	CB (CTS)	Loop-back of RTS	Input
9	CE (RI)	Open	Input
Frame	AA (FG)	Frame ground	—

Dimensions

Unit: mm (inch)



HNF-□-002



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HNF-□-012



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NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.



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7/00

Specifications subject to change without notice.

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