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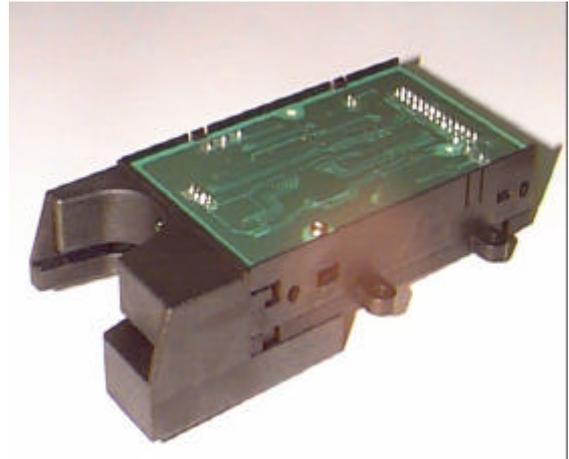
**Hybrid Magnetic / IC Card Reader****3S4YR-SGR**

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**Compact Insert Reader with Magnetic and IC Card Interface**

- Ideally suited for applications using hybrid magnetic stripe and IC cards (such as EMV).
- Supports both ISO and CP8 chip contact locations.
- Red and green LEDs for operation indicator.
- Solenoid-controlled IC card locking mechanism.
- TTL interface.
- Also available with RS232 and housing.



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**Ordering Information**

Magnetic tracks supported (R,RW)					IC Contact	Mag Read Direction	Solenoid	Colour	Part Number
1	2	3	Center	JIS II					
---	---	---	---	---	J-style	---	Yes	Black	3S4YR-SGR0J
R	R	R	---	---	J-style	Push/pull	Yes	Black	3S4YR-SGR1J
---	R	---	---	---	J-style	Push/pull	Yes	Black	3S4YR-

									SGR4J
R	R	R	---	---	---	Push/pull	No	Black	3S4YR- SGR1N
---	R	---	---	---	---	Push/pull	No	Black	3S4YR- SGR4N
R	---	---	---	---	J-style	Push/pull	Yes	Black	3S4YR- SGR3J
R	---	---	---	---	---	Push/pull	No	Black	3S4YR- SGR3N
---	---	R	---	---	J-style	Push/pull	Yes	Black	3S4YR- SGR5J
---	---	R	---	---	---	Push/pull	No	Black	3S4YR- SGR5N
R	R	---	---	---	J-style	Push/pull	Yes	Black	3S4YR- SGR6J
R	R	---	---	---	---	Push/pull	No	Black	3S4YR- SGR6N
---	R	R	---	---	J-style	Push/pull	Yes	Black	3S4YR- SGR7J
---	R	R	---	---	---	Push/pull	No	Black	3S4YR- SGR7N

## Specifications

<b>Part number</b>	3S4YR-SGR
<b>Service life (Mag Head)</b>	300,000 passes (preliminary)
<b>Service life (IC contact)</b>	500,000 passes (preliminary)
<b>Operating Power Supply</b>	+5 VDC&plusmn;5%
<b>Current Consumption</b>	2.5 A max.

<b>Mounting Location</b>	Indoors away from wind, rain, sunlight, and dust
<b>Ambient Temperature</b>	0°C to 45°C
<b>Ambient Humidity (Operation)</b>	30% to 85% RH without condensation and frost formation
<b>Vibration</b>	To be determined
<b>Shock</b>	To be determined
<b>Dimensions</b>	To be determined
<b>Weight</b>	To be determined

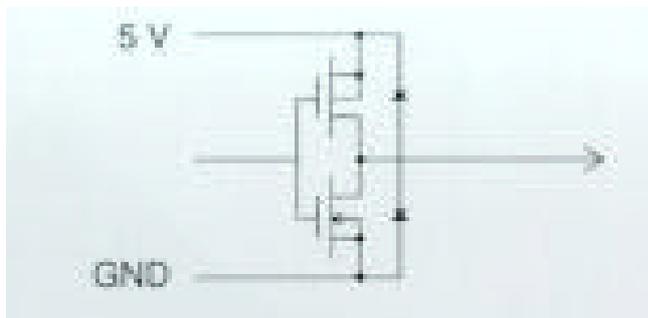
## Engineering Data

### ■ I/O Information

#### **Output signal levels**

VOL = 0.4 V at 5 mA

VOL = 2.8 V at 0.1 mA



**3S4YR-SGR**

7626-5002SC (3m:26 pin), MIL-C-83503A conformed

Pin #	Signal	Input/Output	Description	Pin #	Signal	Input/Output	Description
1	RDT1	Output	Read data, track 1	14	C1	*	IC Contact C1 IVCC
2	RCL1	Output	Read clock, track 1	15	C6	*	IC Contact C6 IVPP
3	RDT2	Output	Read data, track 2	16	C2	*	IC Contact C2 IRST
4	RCL2	Output	Read clock, track 2	17	C7	*	IC Contact C7 IDATA
5	RDT3	Output	Read data, track 3	18	C3	*	IC Contact C3 ICLK
6	RCL3	Output	Read clock, track 3	19	C8	*	IC Contact C8 IRFV2
7	P1	Output	Card Detection	20	C4	*	IC Contact C4 IRFV1
8	P2	Output	Card Insertion Completed	21	5VS	---	Power for Solenoid
9	SLN	Input	Solenoid ON	22	5VS	---	Power for Solenoid
10	LED1	Input	LED1 (Red) ON	23	5V	---	Power for logic
11	LED2	Input	LED2 (Green) ON	24	0V	---	Ground
12	CLS	Output	Magnetic card loading	25	0V	---	Ground
13	C5	*	IC Contact C5 IGND	26	0V	---	Ground

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## Application Examples

- Remote Terminals for Computers
- Credit Card Readers
- ID card checkers
- Electronic locks
- Automatic Gate Machines
- POS Terminals
- ATMs
- Gas Pump Control
- Vending Machines
- Pre-paid systems