NSR 120

bar code slot reader

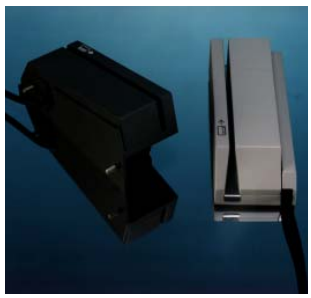
The NSR 120 bar code slot reader can be used for preprinted forms and scanning badges or cards. It is also an ideal low cost device for applications such as time control and attendance- or security acces control. The slot reader is compatible with most decoder boxes and computer terminals.

Using the NSR120 is very simple: a badge or ticket glides through the slot's stainless steel base without wearing out. The bar code reader has a wide slot, and features perfect read rates on high density labels.

The sealed optical system prevents performance degradation in dirty or dusty environments, and the cast aluminium casing withstands physical abuse. With a choice of red or infrared illumination, the NSR 120 will read visible or security laminated labels. The slot reader will stand alone on a desktop or can be side-mounted on a wall or table.

Opticon's slot reader is available in two versions: the NSR120 contains a built-in decoder, the NSR110 makes use of an external decoder.

Features	***Benefits***
■ Choice of installation package	■ Select wall or desk mount unit
■ Wide bar code slot with flexible read angle	■ Usable for all sorts of cards of different printing qualities
■ Compatible with all terminals with bar code read capability and decoders	■ No problems with connecting the device to your equipment
■ Sealed optical system	■ No performance reduction in harsh environmental conditions
■ 100% field tested	■ Provides years of trouble-free service



NSR110
desktop and
side mount version

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OPTICON

NSR110-5V-DT/SM* (standard)

Voltage requirement	+5V DC±5%
Current consumption	37mA typ, 45mA max

Wire color coding:

Red:	+5V
Green:	TTL output
Drain:	SG
Case:	shield (F)

NSR120-keyboard wedge-DT/SM* (standard)

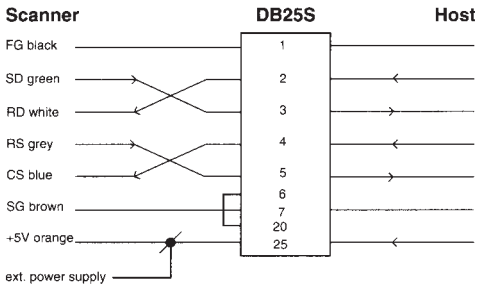
Y-cable which connects the scanner, the keyboard, and the CPU

Y-cables available for PC AT/XT and several other terminal types.

NSR120-RS232-DT/SM* (standard)

Voltage requirement	+5V DC±5%
Current consumption	40mA

Connector: DB25S



* DT stands for Desk Top;
SM stands for Side-Mounted

Optical

Light source	Red LED	660nm
	Infra-red LED	940nm
Photo sensor		PIN photo diode
Resolution		0.15mm, 0.18mm
Scan velocity		100~2000mm/s
PCS		0.3 at 0.18mm narrow bar

Environmental

Temperature	Operation	0~50°C
	Storage	-10~60°C
Humidity	Operation	20~85%RH (non-condensing)
	Storage	20~90%RH (non-condensing)

Static electricity tolerance	5kv MAX (500pf, 500Ω)
Shock	1m drop onto concrete surface
Vibration	10~100Hz with 2G for 1hr.

NSR110/120-DT Physical

Dimensions	137.5x53.3x32.4mm		
Body weight	350g		
Cable	∅4.8±0,2x1000±50mm (SPVC)		
Connectors for the quantity of 100 units up	(1) 9 pin squeeze	: AMP745002	compatible
	(2) 9 pin screw	: JAE DE-CI-J6	compatible
	(3) 5 pin DIN 270°	: Hosiden TPC6256,5b	compatible
	(4) 5 pin DIN 180°	: Hosiden TPC6256,5a	compatible
	(5) Modular jacks		
	(6) Others		

NSR120-RS232 connectors	(1) DB9 (2) DB25
NSR120-keyboard wedge connector	(1) DB9

NSR110-SM Physical

Dimensions	137.5x45.9x32.4mm
Body weight	270g
Cable	∅4.8±2.5x1000±25mm (SPVC)
Connectors	same options as desktop versions

Specifications are subject to change without notice. Printed 1995-01

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