symbol®

RS 1 Ring Scanner

The Laser Scanner You Wear on Your Finger to Read Bar Codes without Interrupting Workflow

Symbol Technologies' RS 1 Ring Scanner redefines point and shoot scanning. It's the revolutionary laser scanner you slip on your index finger…and then go to work: Point your finger, activate the scanner with a squeeze of your thumb and the RS 1 reads bar codes from four to 30 inches/10 to 76 cm, even poor quality bar codes.

Revolutionary Ergonomics and Performance for Truly Hands-Free Scanning

The RS 1 Ring Scanner is activated by pressing the thumb against a button at the base of the wearer's index finger. A red and green LED on the ring confirms the scan. Weighing less than 1.7 ounces/48 gm, the RS 1 is so light it can be worn indefinitely without fatigue. And, at just .9 inches/2.3 cm high, it's compact enough to avoid bumps and knocks; but even when it doesn't there's a scratch-resistant coating to protect the replaceable window. Its Mylar® scan element is not only super small and lightweight, it's frictionless, so there's no wear and tear on the moving parts.

The mount for the RS 1 features an adjustable strap, allowing it to fit fingers of all sizes, and because it's reversible it works equally well for right- and left-handers. With user safety in mind, Symbol has designed the ring scanner to break away from the finger at under 20 pounds/9 kg of pressure.

Expand the Capabilities and Flexibility of Your Existing Terminals

A single lightweight cable connects the RS 1 to a wide variety of data collection and transmission devices from Symbol Technologies or other manufacturers. It connects to portable data terminals, such as Symbol's popular PDT 3100, 3300 and 3500 Series; to Symbol's wearable computer, the APS 3395 Application Productivity System, as a replacement for the scanner worn on the back of the hand; to portable pen terminals, such as Symbol's PPT 4600 Series; and even to stationary terminals, such as PCs and retail POS registers. A retrofit with the RS 1 is a cost-effective way to extend the life of your investment by adding hands-free scanning capabilities to your existing terminals.

More than a Scanner, the RS 1 Can Be Part of a Wearable Productivity System

The RS 1 is also a primary component in Symbol's all-new WS 1000 Wearable System Series. In this application, it connects to an integrated computer and wireless radio worn on the forearm. The WS 1000 and RS 1 form a complete productivity system with today's most advanced ergonomics, robust data collection capabilities, and batch processing or wireless communications using Symbol's Spectrum One® RF technology. What's more, as part of the WS 1000, the RS 1's low power consumption further enhances productivity because a single battery charge lasts through a full work shift.

Applications Unlimited

Applications for the RS 1 are virtually unlimited. In warehouse and distribution environments, it's ideal for shipping and receiving, order picking, stock pulling and put-away, item tracking, cross-dock transfers, and inventories/cycle counts. Parcel and package delivery companies will put the RS 1 to work doing parcel sortation, tracking and cross-dock transfers. Retailers will use it not only for point of sale applications, but for shelf price audits, store transfers and inventory management. There are applications, as well, for manufacturers to track work in process; for freight movers in tracking shipments and managing cross-dock transfers; for passenger airlines in baggage tracking and sortation and inventory services.

The RS 1 Ring Scanner. It's simply the smallest, most ergonomic laser scanner in the world. And, it's another breakthrough innovation from Symbol Technologies, the leader in bar code-driven data management systems, with more than 3.5 million scanners and terminals installed worldwide.

RS 1 Ring Scanner Specification Highlights

Feature	Benefit
Innovative ring scanner	For the first time, wearing a scanner as a ring means that operators' hands are totally free for improved efficiency and greater speed and productivity including moving packages, products or materials.
Compatible for retrofit to existing devices; RS 1 provides standard 5-volt laser scanner output	An easy, cost-effective way to expand the performance of computers from Symbol and other manufacturers. Adds bar code scanning to Symbol's popular PDT 3100, 3300 and 3500 Portable Data Terminals and APS 3395 Wearable Scanner, enabling upgrade path and increasing return from existing investment.
Mylar scan element	No friction means no wear and tear on the moving parts to ensure a long life of trouble-free, reliable operation.
Low power consumption maximizes battery life in portable applications	Maintains operators' productivity as battery provides power for a full work shift on one charge when worn with the WS 1000 system.
Weighs 1.7 oz./48 gm	Ideal for extended wear without fatigue–reduces stress.
Adjustable, thumb-activated scanner button	Extremely easy and natural to use, and equally comfortable for right- and left-handers.
Adjustable strap	Fits fingers of all sizes. Strap can be changed quickly from user to user, thus eliminating hygiene concerns.
20 lb./9 kg breakaway force factor	To protect employees, scanner automatically breaks away from the finger with 20 lbs./9 kg of pressure.
Only .9 in./2.3 cm high	Low profile protects ring scanner from accidental knocks and damage.
High performance on all types of bar codes	Total flexibility: reads poor quality codes of the type that are often found in warehouse environments.
Red/green light emitting diode on ring	Confirms successful scan for operator.

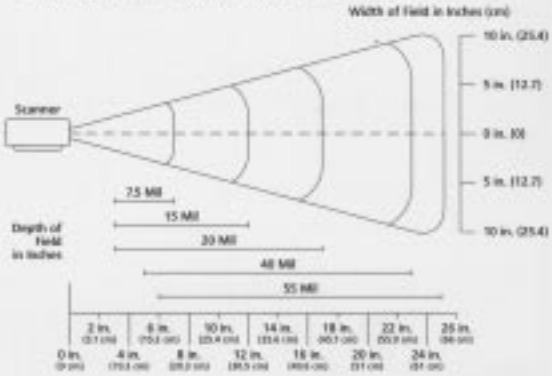
Performance Characteristics	
Light Source:	675 nm laser
Scan Rate:	36 scans per second
Yaw:	±60°
Roll (Skew):	±20°
Pitch Contract:	±55°

Physical Characteristics	
Voltage:	5 Volts DC
Current:	120 mA nominal (both LEDs "on")
Laser Class:	CLASS 2
Weight:	1.7 oz./48 gm
Color:	Grey, yellow
Dimensions:	.9" H x 1" W x 1.7" L / 2.3 cm H x 2.8 cm W x 4.3 cm L

User Environment	
Ambient Light:	Up to 9000 foot-candles sunlight and 450 foot-candles artificial light
Operating Temperature:	-4° to 122°F/-20° to 50°C
Storage Temperature:	-40° to 140°F/-40° to 60°C
Humidity:	5% to 90% non-condensing
Breakaway Factor:	20 lb./9 kg of pressure

CE

RS 1 Decode Zone
NOTE: Typical performance at 68°F/20°C on high-quality symbols



Depth of field as a function of minimum element width

Specifications are subject to change without notice. Mylar® is a registered trademark of the DuPont Company. Spectrum One is a registered trademark of Symbol Technologies, Inc.

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