

Next-generation wearable scanner delivers maximum functionality in a minimal footprint

The tiny RS409 Ring Scanner from Symbol Technologies offers the ideal blend of form and function, allowing unparalleled freedom of movement in scanning, picking, and sorting applications. Part of the WT4000 Series Wearable System, this lightweight device delivers hands-free ergonomic comfort, the latest in scanning technology, and the rugged design to endure everyday use indoors and outdoors. The RS409 can scan near or far, can be worn directly on the finger or over a gloved hand, and is ideal for a wide range of applications — from workers picking product in a warehouse or processing deliveries in a postal facility, to hospitality workers scanning lift tickets on a ski slope.

Superior scanning performance

When it comes to scanning, the lightweight RS409 offers performance and reliability you can count on. The device delivers accurate reading of even poorly printed and damaged bar codes on the first scan. Its highly advanced retro-collective optical design provides an extremely wide working range — from one inch to over four feet — with rapid reading regardless of lighting conditions or bar code symbology. And the scanner’s low power consumption ensures more-than-ample battery power for a full shift.

Rugged design for reliable every day use

The rugged design offers improved impact protection for reliable operation in the roughest environments. The scan engine is better isolated and protected from the routine impacts and shocks associated with everyday drops and bumps. Fragile silicon mirrors have been replaced with a frictionless Liquid Polymer scan element that won’t wear out. The trigger is built to last, rated for over one million actuations. And the new housing offers improved abrasion resistance in the most vulnerable spots.

State-of-the-art ergonomics for ease of use and maintenance

The ergonomic design makes data capture a breeze in any environment. The RS409 is designed to provide maximum user comfort, regardless of hand size or preferred hand position. The new swivel feature allows users to easily switch from right to left hand use in seconds, eliminating time previously spent removing and re-threading the strap. And the removable finger strap is completely isolated from the scanner — each operator can now be issued a personal finger strap for improved hygiene.



FEATURES

BENEFITS

Hands-free scanning	Ring scanner design frees operator’s hands to move packages, products or materials, helping to improve efficiency and productivity
SE955 scan engine	Provides superior scanning performance; ability to read even damaged or poorly printed bar codes
Retro-collective optical design	Provides extremely wide working range for increased productivity
Bright scan line and aim mode	Provides intuitive ease-of-use across the entire working range
New housing design	Improved abrasion resistance in areas most likely to wear
Die cast zinc scan engine chassis, single board construction, scan engine isolation	Improves impact protection for scan engine to ensure maximum reliability
Supports Reduced Space Symbology (RSS)	Broadens the range of your scanning capabilities and increases investment protection
New swivel feature	Enables easy switching from right to left hand use
Separate finger strap assembly	Improves hygiene and personalization; easy to replace
Better trigger ergonomics	Accommodates wide range of hand sizes; adapts to different hand positions
Uses improved connectors to attach to WT4000 Series system host	Maximizes device flexibility and host uptime
Oversize LED light pipe	Enables users to quickly and easily confirm completion of a scan
RoHS compliant	Meets RoHS requirements

Maximum value

Whether your workers need both hands to pick fragile or other goods or need the comfort of hands-free scanning for scan intensive applications, the RS409 provides the features and functionality to streamline processes, help improve worker productivity — and deliver a rapid return on investment. With built-in durability, you can count on maximum device uptime for a remarkably low total cost of ownership. And since even the most intelligent products require a maintenance plan and a support strategy, Symbol provides a full complement of service offerings to maximize uptime and maintain peak performance.

For more information on the RS409, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: www.symbol.com/rs409

RS409 Specification Highlights

Physical and Environmental Characteristics

Dimensions: 1.9 in. H x 1.4 in. W x 1.9 in. D
4.8 cm H x 3.6 cm W x 4.8 cm D

Weight: 2.0 oz./56.7 gm

Current: 92 mA typical/121 mA max (one LED on)

Standby Current: 12 μ A typical/60 μ A max

Voltage: 3.1 VDC to 3.6 VDC

Vcc Noise Level: 100 mV peak to peak max.

Performance Characteristics

Light Source: 650nm LASER 1.55mW

Scan Rate: 92 min., 104 typical, 116 max. scans/sec (bidirectional)

Nominal Working Distance:

Density:	5 mil	7.5 mil	10 mil	13 mil	20 mil	40 mil	55 mil
Code Type:	39	39	39	UPC	39	30	39
Far (Guaranteed):	4.75 in.	8.75 in.	13.25 in.	17.25 in.	21.5 in.	22.25 in.	27 in.
Far (Typical):	8.75 in.	14.25 in.	N/A	24.25 in.	35.75 in.	N/A	50.5 in.

Yaw: $\pm 50^\circ$ from normal

Roll: $\pm 35^\circ$ from vertical

Pitch: $\pm 65^\circ$ from normal

User Environment

Operating Temperature: -4° to 122° F/ -20° to 50° C

Storage Temperature: -25° to 160° F/ -40° to 70° C

Humidity: 5% to 95% non-condensing

Ambient Light Immunity: Indoor – 450 ft. candles (4,844 lux)
Outdoor – 10,000 ft. candles (107,640 lux)

Drop Specification: Multiple drops to concrete: 4 ft./1.2 m across the operating temperature range

Environmental Sealing: IP54

Regulatory

Electrical Safety: Certified to CSA C22.2 No. 60950-1, EN60950-1, IEC 60950-1

EMI/RFI: FCC Part 15 Class B, ICES-003 Class B, European Union EMC and R&T Directives, Australian AS/NZS 4268

Laser Safety: CDRH Class II, IEC 60825-1 Class 2

About Symbol Technologies

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