RS409

Ring Scanner

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

The tiny RS409 Ring Scanner from Motorola 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.

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,

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

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, Motorola 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 Series Specifications

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 µA typical/60 µA 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″	8.75″	13.25″	17.25″	21.5″	22.25″	27″
Far (Typical):	8.75″	14.25″	N/A	24.25″	35.75″	N/A	50.5″

Yaw[1]:	± 50° from normal
Roll[2]:	± 35° from vertical
Pitch[3]:	± 65° from normal

1 - Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise
2 - Pitch: Controleed by dropping or raising the wrist
3 - Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa

User Environment

Operating Temp.:	-4° to 122° F/-20° to 50° C
Storage Temp.:	-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 Spec.:	Multiple drops to concrete: 4 ft./1.2 m across the operating temperature range
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&TT Directives, Australian AS/NZS 4268
Laser Safety:	CDRH Class II, IEC 60825-1 Class 2

ⓒN410 CE

CAUTION
LASER LIGHT—
DO NOT STARE INTO BEAM
630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

MOTOROLA