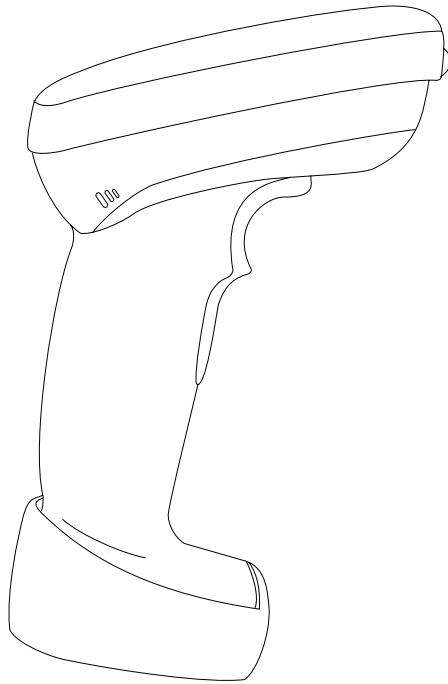
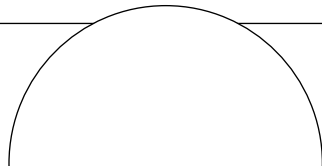




LS 4071 Scanner



Quick Reference



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Symbol Technologies, Inc.
One Symbol Plaza
Holtsville, NY 11742-1300
<http://www.symbol.com>

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No. 4,360,798; 4,369,361; 4,387,297; 4,460,120; 4,496,831; 4,593,186;
4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,816,660;
4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833;
5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,140,144;
5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,229,591;
5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,262,627;
5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,321,246; 5,367,151;
5,373,148; 5,378,882; 5,377,361; 5,396,053; 5,396,055; 5,399,846; 5,408,081;
5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231;
5,449,891; 5,449,893; 5,468,949; 5,479,000; 5,479,002; 5,479,441; 5,504,322;
5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,578,810; 5,589,680;
D305,885; D341,584; D344,501; D359,483; D362,435; D363,700; D363,918;
D370,478.

Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875;
1,955,269 (Japan).

European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81 /03938;
Italy 1,138,713.

Quick Reference

Introduction

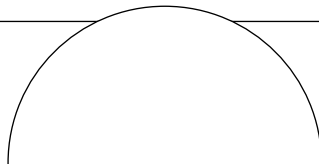
The LS 4071 is a high performance scanner that lets you scan a bar code and transmit it to a base station up to 10 feet (3 meters) away, without a physical cable to limit your movement. Instead, the scanner communicates with the base station through a low power radio transmission.

Scanning Made Easy

To install the scanner or change the different programmable parameters of the LS 4071, see the *Product Reference Guide*.

If you are using a Synapse cable, select the host type by scanning the appropriate bar code packed with the cable. If you are not using a Synapse cable, scan one of the bar codes beginning on page 6.

If you need assistance, contact the technical person in charge of scanning at your site, or Symbol Technologies.



Ready, Test, Scan

Ready

Make sure connections are secure, and the battery pack is charged. The battery must be charged before the scanner's initial use, and after each day's use. Placing the scanner in its base station between uses will help maintain the battery's charge.

Be sure the scanner is "paired" to the base station by scanning the **Pairing** bar code on the base.

Test

Aim the scanner away from you and press the trigger. When you press the trigger, the scanning beam is energized for approximately 3.0 seconds (default).

Scan

Make sure the symbol you want to scan is within the scanning range. See the *LS 4071 Product Reference Guide*. Also, be certain the scanner is within range of the base station: 10 feet (3 meters).

The scanner has read the symbol when:

- The yellow LED on the rear of the scanner turns green for a short period of time after the scanning beam turns off.

The data has been successfully sent to the base station when:

- You hear a short, high tone beep from the base (if default beeper settings are selected).
- The yellow LED on the base blinks.

Quick Reference

Aiming

Scan the Entire Symbol

- Your scan beam must cross every bar and space on the symbol.
- The larger the symbol, the farther away you should hold the scanner.
- Hold the scanner closer for symbols with bars that are close together.
- A short, high tone beep from the base indicates a good decode.

Right

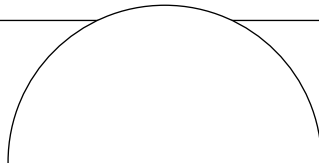


0123456789

Wrong



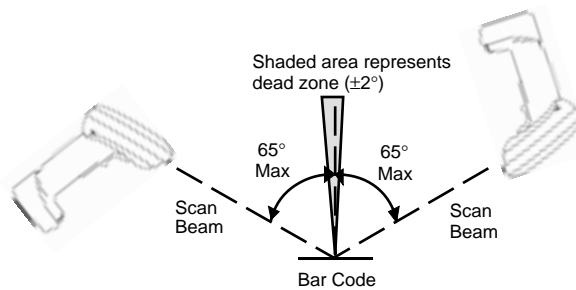
0123456789



Hold at an angle

Do not hold the scanner directly over the bar code. Laser light reflecting *directly* back into the scanner from the bar code is known as specular reflection. This strong light can “blind” the scanner and make decoding difficult. The area where specular reflection occurs is known as a “dead zone”.

You can tilt the scanner up to 65° forward or back and still achieve a successful decode. Simple practice quickly shows what tolerances to work within.



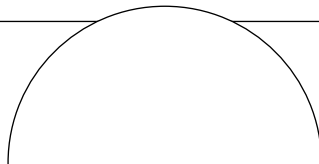
Quick Reference

What Does The Beep Mean?

When you hear 1 beep (short high tone) it means data has been decoded successfully. If any other beeps are heard, contact the technical person in charge of scanning.

What If...

If the scanner is not operating according to your needs, contact the technical person in charge of scanning. If there is no one in charge of scanning, call the Symbol Support Center at 1-800-653-5350.

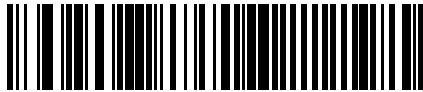


Host Types

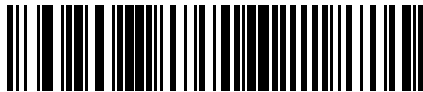
When using an RL475 system, select one of the bar codes below to communicate with an IBM 468X/9X host.



Port 5B



Port 9B



Port 17

Note: To properly communicate with 468X/9X terminals, the driver corresponding to the port being used must be loaded and enabled when you are configuring your terminal system. See your terminal's operating manual for details.

Quick Reference

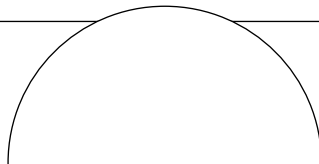
Host Types

RS-232C Host Types

Three RS-232C hosts are set up with their own parameter default settings. Selecting the ICL, Fujitsu or Nixdorf RS-232C terminal sets the defaults listed on the following page. These defaults take precedence over Standard RS-232 defaults. So, if you've selected Fujitsu RS-232C, then select the Standard RS-232 defaults, the Fujitsu defaults still take precedence. To return to the factory set defaults, scan the **SET ALL DEFAULTS** bar code below. See the table on the following page for terminal specific defaults.



SET ALL DEFAULTS



Host Types

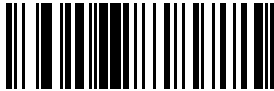
Parameter	Standard	ICL	FUJITSU	NIXDORF Mode A/ Mode B
Transmit Code ID	No	Yes	Yes	Yes
Data Transmission Format	Data as is	Data/Suffix	Data/Suffix	Data/Suffix
Suffix	CR/LF	CR	CR	CR
Baud Rate	9600	9600	9600	9600
Parity	None	Even	None	Odd
Hardware Handshaking	None	RTS/CTS Option 3	None	RTS/CTS Option 3
Software Handshaking	None	None	None	None
Serial Response Time-out	2 Sec.	9.9 Sec.	2 Sec.	9.9 Sec.
Stop Bit Select	One	One	One	One
ASCII Format	8-Bit	8-Bit	8-Bit	8-Bit
Beep On <BEL>	Disabled	Disabled	Disabled	Disabled
RTS Line State	Low	High	Low	*Low = No data to send

*In the Nixdorf Mode B, if CTS is Low, transmission of scan data is disabled. When CTS is High, bar code data is transmitted to the host.

Quick Reference

Host Types

When using an RL474 system, select one of the bar codes below to communicate with an RS-232C host.



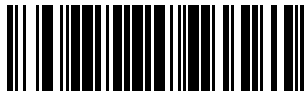
STANDARD RS-232C



ICL RS-232C



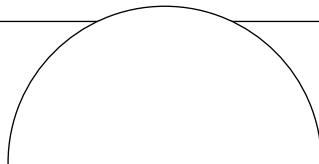
NIXDORF RS-232C Mode A



NIXDORF RS-232C Mode B

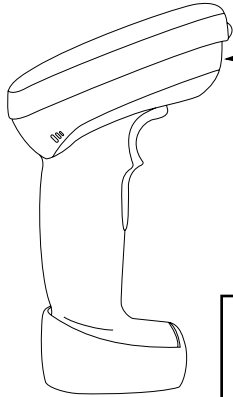


FUJITSU RS-232C



Regulatory Information Scanner Labeling

CAUTION	<small>ATTENTION: LASERSTRALHUNG LASERLICHTE. A NICHT ALLEIN STRAHLEN BLOCKEN. LASERLICHTE LASEREN SICH PERS. BEGARDEN SINDEN ES FANSCHEAU APPAREIL LASER DE CLASSE I CAUTION. LASER LIGHT DO NOT STARE INTO BEAM OF CLASS I LASER PRODUCT. ATTENTION. LE LASER S'ATTENDRE.</small>
LASER LIGHT - DO NOT STARE INTO BEAM	
* 680 nm LASER 1.0 MILLIWATT MAX OUTPUT CLASS II LASER PRODUCT	
PATENT NO. XXXXXXXXXXXXXXXXXXXXXXX	
<small>COMPLIES WITH US DHHS 21CFR1040.10 SUBCHAPTER J AND IEC 825-1:1993/EN60825-1:1994 VORSICHT! LASERSTRAHLUNG TRITT AUS, WENN DECKEL (ODER KLAPPE) GEDEFNET IST! NICHT IN DEN STRALH BUCKEN! ATTENTION: LUMIERE LASER EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU DANGER - LASER LIGHT WHEN OPEN. AVOID DIRECT EYE EXPOSURE</small>	



or

<small>PATENT NO. XXXXXXXXXXXXXXXXXXXXXXX</small>
<small>COMPLIES WITH US DHHS 21CFR1040.10 SUBCHAPTER J AND IEC 825-1:1993/EN60825-1:1994</small>
<small>CAUTION - LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM</small>
<small>ATTENTION - LUMIERE LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU</small>
IEC CLASS 1 LASER PRODUCT
TIME BASIS : 100 S
APPAREIL LASER DE CLASSE I
BASE DE TEMPS : 100 S
KLASSE 1 LASER GERATE
ZEIT BASIS: 100 S

Quick Reference

Regulatory Information

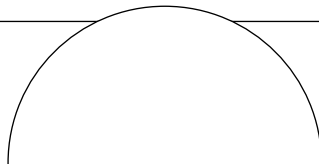
Class I

Symbol U.S. Federal (FDA)/IEC825/EN60825 Class 1 laser products use low power visible or IR lasers. Class 1 laser devices are not considered to be hazardous when used for their intended purpose. To comply with U. S. Federal and International regulations, the following statement is required:

Caution

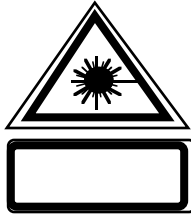
Use of controls, adjustments, or performance of procedures other than those specified herein may result in hazardous visible or invisible laser light exposure.

This advisory statement also applies to all other FDA/IEC825/EN60825 classes of laser products.



Regulatory Information

In accordance with Clause 5, IEC 0825 and EN60825, the following information is provided to the user:



ENGLISH

CLASS 1	CLASS 1 LASER PRODUCT
CLASS 2	LASER LIGHT
	DO NOT STARE INTO BEAM
	CLASS 2 LASER PRODUCT

DANISH

KLASSE 1	KLASSE 1 LASERPRODUKT
KLASSE 2	LASERLYF
	SE IKKE IND I STRÅLEN
	KLASSE 2 LASERPRODUKT

DUTCH

KLASSE 1	KLASSE-1 LASERPRODUKT
KLASSE 2	LASERLICHT
	NIET IN STRAAL STAREN
	KLASSE-2 LASERPRODUKT

FINNISH

LUOKKA 1	LUOKKA 1 LASERTUOTE
LUOKKA 2	LASERVALO
	ÄLÄ TUJOTA SÄDETTÄ
	LUOKKA 2 LASERTUOTE

FRENCH

CLASSE 1	PRODUIT LASER DE CLASSE 1
CLASSE 2	LUMIERE LASER
	NE PAS REGARDER LE RAYON FIXEMENT
	PRODUIT LASER DE CLASSE 2

Quick Reference

Regulatory Information

GERMAN

KLASSE 1 LASERPRODUKT DER KLASSE 1
 LASERSTRAHLEN
 KLASSE 2 NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN
 LASERPRODUKT DER KLASSE 2

HEBREW

מוצר לייזר רמה 1 רמה 1
 אור לייזר רמה 2
 אין להביט אל תוך הזרם
 מוצר לייזר רמה 2

ITALIAN

CLASSE 1 PRODOTTO AL LASER DI CLASSE 1
 CLASSE 2 LUCE LASER
 NON FISSARE IL RAGGIOPRODOTTO AL LASER DI CLASSE 2

NORWEGIAN

KLASSE 1 LASERPRODUKT, KLASSE 1
 KLASSE 2 LASERLYS IKKE STIRR INN I LYSSTRÅLEN
 LASERPRODUKT, KLASSE 2

PORTUGUESE

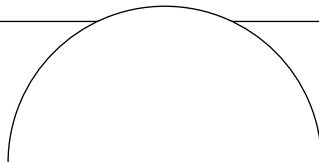
CLASSE 1 PRODUTO LASER DA CLASSE 1
 CLASSE 2 LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO
 PRODUTO LASER DA CLASSE 2

SPANISH

CLASE 1 PRODUCTO LASER DE LA CLASE 1
 CLASE 2 LUZ LASER
 NO MIRE FIJAMENTE EL HAZ
 PRODUCTO LASER DE LA CLASE 2

SWEDISH

KLASS 1 LASERPRODUKT KLASS 1
 KLASS 2 LASERLJUS STIRRA INTE MOT STRÅLEN
 LASERPRODUKT KLASS 2



Warranty Information

For Warranty & Service Information, Call:

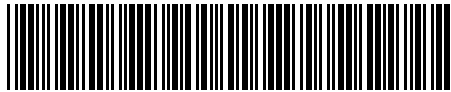
1-800-653-5350

**Outside North America, contact your local Symbol
representative**

Symbol products are warranted against defects in workmanship and materials for a period of one year (unless specified otherwise) from the date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

This warranty is limited to repair or replacement at Symbol's option, with reasonable promptness after being returned to Symbol by a carrier selected and paid for by the customer. These provisions do not prolong the original warranty term for any product which has been repaired or replaced by Symbol.

This warranty applies to the original owner and does not extend to any product which has been subject to misuse, neglect, accidental damage, unauthorized repair or tampering. Preventive maintenance activities are not covered by warranty.



70-19478-01

Revision B - February 1997