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Patents

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

U.S. Patent No. 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; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,321,246; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 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; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617; 5,902,989; 5,907,146; 5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025; 5,929,420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,068,190; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265; 6,131,814; 6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250; D405,077; D406,581; D414,171; D414,172; D418,500; D419,548; D423,468; D424,035; D430,158; D430,159; D431,562; D436,104.

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.

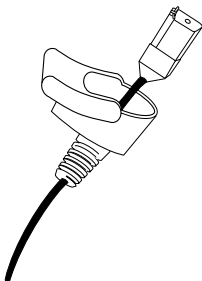
rev. 04/01

Scanning Made Easy

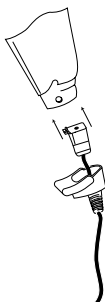
The scanner should have already been installed and programmed. If not, consult the *Product Reference Guide*. If you need assistance, contact your local supplier or Symbol Technologies.

Installing the Cable

1. Switch off all devices connected to the LS 400X cable.
2. Pull the boot up over the cable until just the connector is protruding.

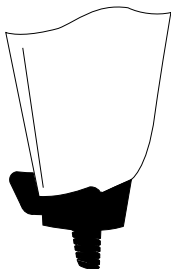


3. Plug the modular connector on the cable into the receptacle in the bottom of the LS 400X handle. Listen for a click.



4. Gently tug the cable to ensure the connector is properly secured.

- Slide the boot up while observing its orientation until it is securely in place.



- Make certain the semi-circular key on the boot slides inside the handle assembly, and that the boot snaps into place.
- Gently pull the boot to make certain it is properly seated.

Switching Cables

Different cables are required for different hosts. To change the scanner cable:

- Slide boot down over cable.
- Unplug modular connector by depressing connector clip (through the access hole), and remove existing cable.
- Follow steps for Installing the Cable, beginning on page 1.

Ready, Test, Scan

Ready

Before you use the scanner, make sure all cable connections are secure.

Test

Aim the scanner away from you. Press the trigger; the scan beam lights and a yellow light illuminates at the rear of the scanner.

Scan

Make sure the bar code is in the correct scanning range. Aim and press the trigger. The scanner has read the symbol when:

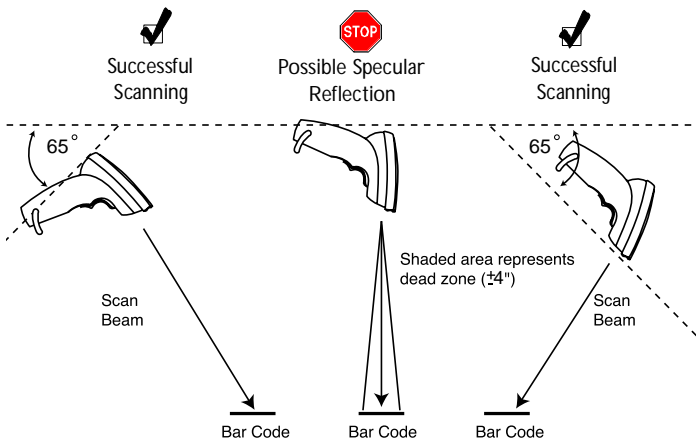
- You hear a beep.
- The yellow light turns green.
- The laser turns off.

Aiming

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 achieve a successful decode. Simple practice quickly shows what tolerances to work within.



Aiming

Scan the Entire Symbol

- The scan beam must cross every bar and space on the symbol (as in the left bar code below).
- The larger the symbol, the farther away you should hold the scanner.
- Hold the scanner closer for symbols with bars that are close together.



Note: LS 4000 series scanners require no user maintenance.

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...

nothing happens when you follow the operating instructions?

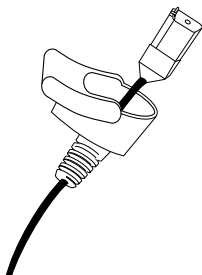
- Check the system power.
- Check for loose cable connections.
- Be sure the scanning system is programmed to read the type of bar code you are trying to scan.
- Check to be sure the symbol is not defaced.

La lecture des codes à barres simplifiée

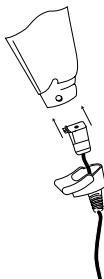
Installez et programmez d'abord le lecteur. Si tel n'est pas le cas, reportez-vous au **Guide de référence produit**. En cas de problème, contactez votre revendeur local ou Symbol Technologies.

Installation du câble

1. Eteignez tous les appareils qui sont connectés au câble du LS 400X.
2. Faites glisser l'isolateur le long du câble jusqu'à ce que le connecteur soit le seul élément qui dépasse.

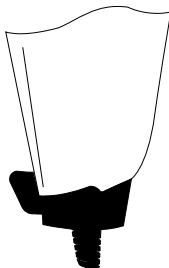


3. Branchez le connecteur modulaire du câble dans la prise située sur la partie inférieure de la poignée du LS 400X jusqu'à ce qu'il s'enclenche avec un déclic.



4. Tirez doucement sur le câble pour vous assurer que le connecteur est bien fixé.

- Déplacez l'isolateur tout en observant sa direction, jusqu'à ce qu'il s'enclenche.



- Veillez à ce que la clé semi-circulaire de l'isolateur glisse à l'intérieur de la poignée et que l'isolateur s'enclenche.
- Tirez doucement l'isolateur pour vérifier s'il est bien en place.

Changement de câbles

Il faut un câble adapté à chaque système central. Pour changer le câble du lecteur :

- Coulez l'isolateur vers le bas le long du câble.
- Débranchez le connecteur modulaire en appuyant sur l'attache connecteur (à travers le trou d'accès) et retirez le câble.
- Suivez la procédure d'installation du câble, à partir de la page 7.

Préparation, test, lecture

Préparation

Avant d'utiliser le lecteur, vérifiez que tous les câbles sont bien branchés.

Test

Visez et appuyez sur la gâchette. Le faisceau de lecture se déclenche et un témoin jaune à l'arrière du lecteur s'allume.

Lecture

Vérifiez que le code à barres se trouve dans le champ de lecture. Visez et pressez la gâchette. Le décodage est effectué lorsque :

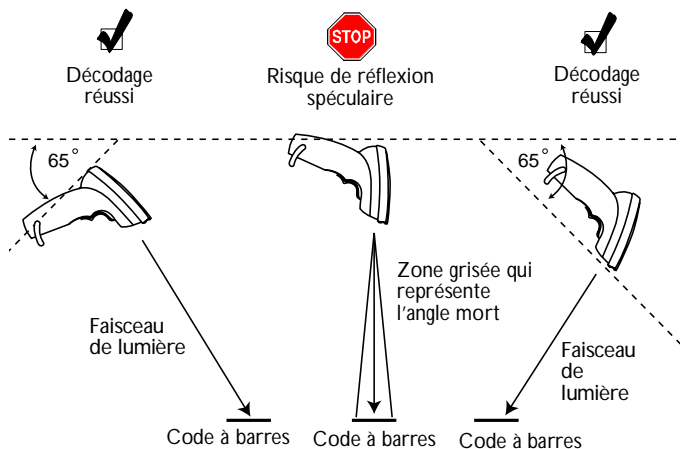
- un bip retentit.
- le témoin jaune vire au vert.
- le faisceau laser s'éteint.

Visée

Angle de lecture

Ne tenez pas le lecteur directement au-dessus du code à barres. La lumière du faisceau serait réfléchi par le code à barres et renvoyé *directement* dans le lecteur. Ce phénomène s'appelle la réflexion spéculaire. Cette lumière puissante risque "d'aveugler" le lecteur et de rendre le décodage inefficace. Cette réflexion spéculaire se produit dans "l'angle mort".

Pour éviter ce phénomène et réussir le décodage, inclinez le lecteur de 65 ° maximum vers l'avant ou l'arrière. Il suffit d'un peu d'entraînement pour maîtriser rapidement les angles de lecture.



Visée

Lisez tout le code

- Le faisceau de lecture doit recouvrir chaque barre et chaque espace du code (comme indiqué sur le code à barres ci-dessous à gauche).
- Plus le code est large, plus vous devez éloigner le lecteur.
- Rapprochez le lecteur pour les codes disposant de barres rapprochées.



Remarque: les lecteurs de la série LS 4000 ne nécessitent aucun entretien de la part de l'utilisateur.

Signification du signal sonore

Lorsque vous entendez un bip (signal sonore aigu), cela signifie que le décodage est réussi. Si d'autres bips retentissent, prenez contact avec votre représentant Symbol.



Que faire si...

rien ne se produit lorsque vous suivez le mode d'emploi :

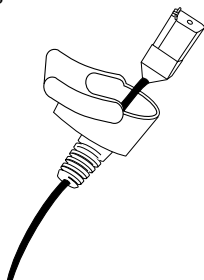
- Vérifiez que le système est sous tension.
- Vérifiez le branchement des câbles.
- Vérifiez que le lecteur est programmé pour lire le type de code à barres en question.
- Vérifiez l'état du code à barres.

Scannen einfach gemacht

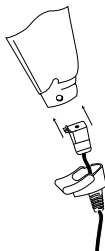
Der Scanner sollte zu diesem Zeitpunkt bereits installiert und programmiert sein. Anderenfalls ziehen Sie Ihr **Produkt-handbuch** zu Rate. Wenn Sie weitere Unterstützung benötigen, wenden Sie sich an Ihren örtlichen Händler oder an Symbol Technologies.

Installieren des Kabels

1. Schalten Sie alle Geräte, die an das LS 400X-Kabel angeschlossen sind, aus.
2. Ziehen Sie die Schutzkappe über das Kabel, bis nur noch der Stecker herausragt.

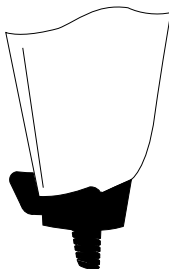


3. Stecken Sie den Modulstecker des Kabels in die Steckbuchse auf der Unterseite des LS 400X-Handgriffes, bis Sie ein Klicken hören.



4. Ziehen Sie leicht am Kabel, um sicherzustellen, daß der Stecker richtig sitzt.

5. Schieben Sie die Schutzkappe mit der richtigen Ausrichtung nach oben, bis sie fest sitzt.



6. Vergewissern Sie sich, daß die halbkreisförmige Vorrichtung auf der Schutzkappe in den Handgriff eingeschoben wird, und daß die Schutzkappe einrastet.
7. Ziehen Sie leicht an der Schutzkappe, um sicherzustellen, daß sie richtig sitzt.

Kabel wechseln

Verschiedene Anwendungen erfordern unterschiedliche Kabel. Um Kabel zu wechseln:

1. Ziehen Sie die Schutzkappe über das Kabel.
2. Ziehen Sie den Modulstecker heraus indem Sie auf den Anschlußclip drücken (durch das Zugangsloch), und nehmen Sie das Kabel ab.
3. Führen Sie die Schritte unter Installieren des Kabels, beginnend auf Seite 13, aus.

Vorbereiten, Prüfen, Scannen

Vorbereiten

Überprüfen Sie alle Kabelanschlüsse vor Inbetriebnahme des Scanners.

Prüfen

Halten Sie den Scanner in eine von Ihnen abgewandte Richtung. Drücken Sie den Auslöser; der Scannerstrahl wird aktiviert und an der Scannerrückseite leuchtet ein gelbes Licht auf.

Scannen

Achten Sie darauf, daß sich der Strichcode im korrekten Scanbereich befindet. Zielen Sie, und drücken Sie den Auslöser. Der Scanner hat das Symbol erfolgreich erfasst, wenn:

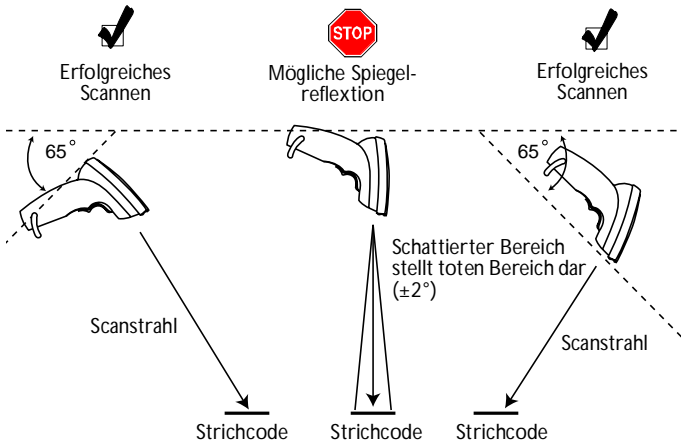
- Sie einen Piepton hören,
- das gelbe Licht grün wird,
- der Laser abschaltet.

Zielen

Einen bestimmten Winkel einhalten

Halten Sie den Scanner nicht unmittelbar über den Strichcode. Bei *direkt* vom Strichcode zum Scanner zurückgeworfenem Laserlicht handelt es sich um eine gerichtete Reflexion. Dieses recht starke Licht kann den Scanner "blenden" und das Decodieren erschweren. Bei der Fläche, auf der gerichtete Reflexionen auftreffen, spricht man von einer "toten Zone".

Sie können den Scanner um bis zu 65° nach vorne oder hinten kippen und dennoch erfolgreich decodieren. Durch einfaches Probieren können Sie sich schnell mit den gegebenen Arbeitstoleranzen vertraut machen.



Zielen

Scannen Sie das komplette Symbol

- Der Lesestrahl muß über alle Striche und Leerstellen des Symbols fahren (wie im linken Beispiel unten gezeigt).
- Je größer das Symbol, desto weiter entfernt müssen Sie den Scanner halten.
- Bei Symbolen mit engeren Strichabständen müssen Sie den Scanner näher an den Code heranführen.



Bitte beachten: Die Scanner der Serie LS 4000 erfordern keine Wartung durch den Benutzer.

Was bedeutet der Piepton?

Sobald Sie einen Piepton (einen kurzen, hohen Ton) hören, bedeutet dies, daß die Daten erfolgreich erfasst wurden. Sollten Sie andere Pieptöne hören, wenden Sie sich an den technischen Beauftragten in Ihrem Unternehmen.



Was tun, falls ...

nichts passiert, obwohl Sie die Bedienungsanleitung befolgt haben.

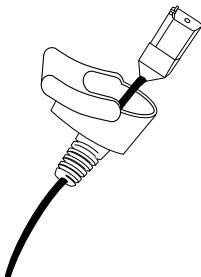
- Überprüfen Sie die Stromversorgung des Systems.
- Kontrollieren Sie alle Kabelanschlüsse.
- Vergewissern Sie sich, daß das Scanning-System für den Strichcodetyp programmiert ist, den Sie einzulesen versuchen.
- Prüfen Sie nach, ob das Symbol leserlich ist.

Lettura facile

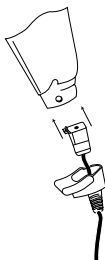
Il lettore dovrebbe già essere installato e programmato. In caso contrario, consultare il manuale di riferimento (***Product Reference Guide***). In caso di necessità, rivolgersi al fornitore più vicino o alla Symbol Technologies.

Installazione del cavo

1. Spegnere tutti i dispositivi collegati al cavo della LS400X.
2. Sollevare la protezione sopra il cavo fino a fare sporgere soltanto il connettore.

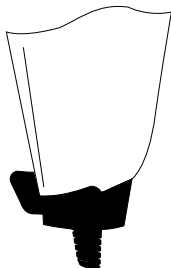


3. Inserire il connettore modulare del cavo nella presa situata nella parte inferiore del manico della LS 400x. Ad inserimento avvenuto si avvertirà uno scatto.



4. Tirare il cavo con cautela per accertarsi che il connettore sia correttamente collegato.

5. Fare scorrere la protezione e osservarne l'orientamento fino ad alloggiarla saldamente sul manico.



6. Accertarsi che la chiave semicircolare della protezione venga inserita correttamente nel manico e che la protezione scatti in posizione.
7. Tirare il cavo con cautela per accertarsi che sia correttamente collegato.

Sostituzione dei cavi

Esistono differenti tipi di cavo per collegarsi su dispositivi diversi. Per sostituire il cavo del lettore occorre:

1. Fare scorrere la protezione lungo il cavo.
2. Disinserire il connettore modulare premendo sul fermo (attraverso il foro di accesso) e rimuovere il cavo esistente.
3. Attenersi alla procedura per l'installazione del cavo riportata a pagina 19.

Preparazione, Prova, Lettura

Preparazione

Assicurarsi prima di usare il lettore che tutti i cavi siano collegati correttamente.

Prova

Puntare il lettore lontano da se stessi e premere il grilletto. Così facendo verrà attivato il raggio Laser e la spia gialla posta sul retro del lettore.

Lettura

Assicurarsi che il codice a barre sia compreso entro la corretta area di lettura. Puntare e premere il grilletto. La lettura può considerarsi avvenuta quando:

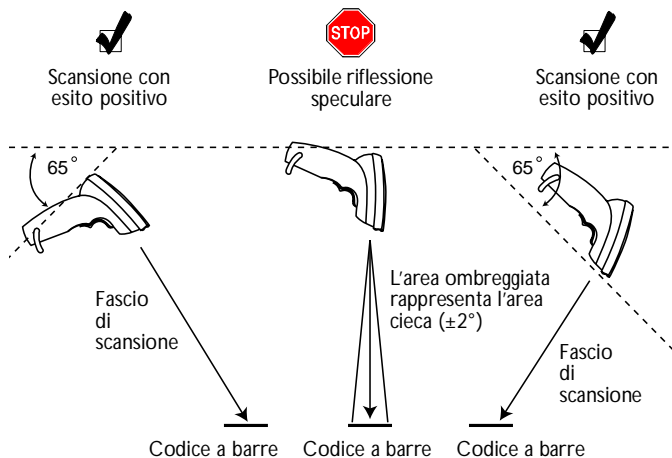
- Viene emesso un segnale acustico.
- La spia gialla diventa verde.
- Il raggio Laser viene disattivato.

Puntamento

Inclinazione

Non tenere il lettore perpendicolare al codice a barre. La luce Laser che si riflette *direttamente* nel lettore dal codice a barre, detta riflesso speculare, data la sua particolare intensità può abbagliare il lettore ed impedire la decodifica. L'area in cui si verifica il riflesso speculare è detta "zona morta".

Per avere la massima efficienza in fase di lettura è necessario tenere il lettore inclinato fino a 65° in avanti o indietro. Con un po' di pratica ci si renderà subito conto della tolleranza entro la quale è possibile una facile lettura.



Puntamento

Letture del codice

- Il raggio Laser deve attraversare tutte le barre e gli spazi del codice (come sotto raffigurato a sinistra).
- La distanza di puntamento deve aumentare con l'aumentare delle dimensioni del codice.
- Avvicinare il lettore se le barre del codice sono più fitte.



Note: la serie LS 4000 non richiede alcuna manutenzione.

Significato del segnale acustico

Quando viene effettuata una lettura, il lettore emetterà, a conferma, un segnale acustico breve ed acuto. Tutti gli altri tipi di segnalazione acustica indicano un non corretto funzionamento del lettore; si consiglia in questi casi di rivolgersi al personale tecnico di competenza.



Cosa fare se...

Il lettore non funziona anche se vengono seguite tutte le istruzioni precedentemente descritte:

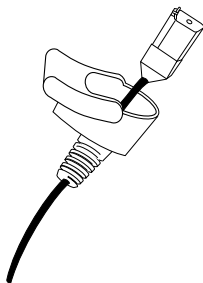
- Controllare la tensione del sistema.
- Controllare che tutti i cavi siano correttamente collegati.
- Assicurarci che il sistema di lettura sia programmato per leggere il tipo di codice a barre utilizzato.
- Accertarsi che il codice non sia difettoso.

Lectura más fácil

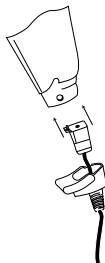
El scanner debería estar ya instalado y programado. Si no es así, consulte la *Guía de Referencia Rápida*. Si necesita ayuda, póngase en contacto con su proveedor local o con Symbol Technologies.

Instalación del cable

1. Apague todos los dispositivos conectados con el cable LS 400X.
2. Tire de la funda hacia arriba sobre el cable hasta que sobresalga el conector.

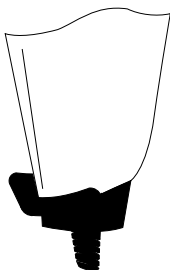


3. Enchufe el conector modular del cable en la toma de corriente situada en la parte inferior del mango del LS 400X. Escuchará un clic.



4. Tire con cuidado del cable para asegurarse que el conector se encuentra encajado.

- Deslice la funda hacia arriba observando su orientación hasta que encaje en su sitio.



- Asegúrese que la llave semicircular de la funda se desliza dentro del conjunto del mango y que la funda encaja en su lugar.
- Tire con cuidado de la funda para asegurarse que se encuentra sentado.

Cambio de cables

Para los diferentes hosts se necesitan cables distintos. Para cambiar los cables del scanner:

- Deslice la funda hacia abajo del cable.
- Desenchufe el conector modular quitando el clip conector (a través del agujero de acceso) y extraiga el cable existente.
- Siga las instrucciones para la instalación del cable empezando en la página 25.

Revisión, Prueba, Lectura

Revisión

Antes de usar el scanner, asegúrese de que todos los cables están bien conectados.

Prueba

Apunte con el scanner lejos de usted. Pulse el gatillo; el rayo de lectura se ilumina y se enciende una luz amarilla en la parte trasera del scanner.

Lectura

Asegúrese que el código de barras está dentro del alcance de lectura correcto. Apunte y pulse el gatillo. El scanner ha leído el símbolo en el instante en que:

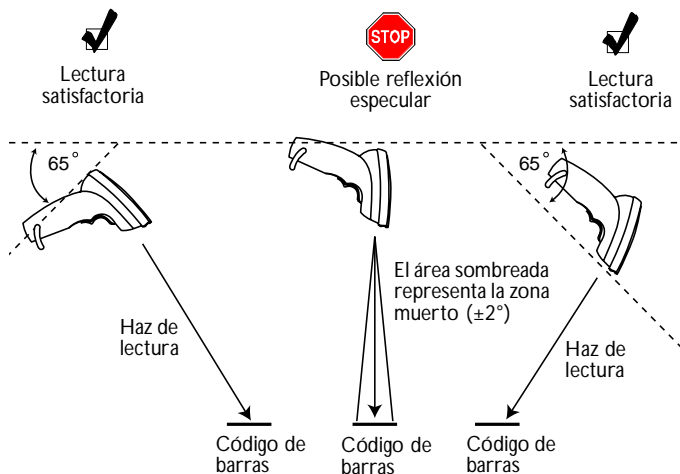
- Se oye un pitido.
- La luz amarilla cambia a verde.
- El láser se apaga.

Cómo apuntar

Mantenga el scanner en un cierto ángulo

No coloque el scanner directamente sobre el código de barras. La luz del láser, que se refleja en el código de barras y vuelve directamente al scanner, se denomina reflexión especular. Esta luz tan fuerte puede “cegar” el scanner y hacer la descodificación difícil. El área donde tiene lugar la reflexión especular se conoce como “zona muerta”.

Puede inclinar el scanner 65° hacia delante o hacia atrás y conseguir una descodificación correcta. La simple práctica muestra rápidamente las tolerancias entre las que se puede trabajar.



Cómo apuntar

Lea el símbolo completo

- El rayo de lectura debe recorrer todas las barras y espacios que tenga el símbolo (como se muestra en el código de barras de la izquierda, debajo).
- Cuanto mas grande sea el símbolo más lejos debe mantenerse el scanner.
- Si las barras del símbolo están muy cerca la una de la otra hay que mantener el scanner más próximo al símbolo.



Nota: La serie de scanners LS 4000 no requiere mantenimiento por parte del usuario.

¿Qué significa el pitido?

En el momento en que oiga un pitido (tono alto y corto) significa que los datos han sido descodificados correctamente. Si oye más de un pitido, póngase en contacto con el técnico encargado del funcionamiento de los scanners.

Qué pasa si

nada ocurre, aunque se hayan seguido las instrucciones de funcionamiento.

- Compruebe la alimentación eléctrica del sistema.
- Verifique si algún cable está suelto.
- Asegúrese que el scanner está programado para leer el tipo de código de barras que está tratando de leer.
- Verifique el símbolo para asegurarse que no está deteriorado.



Warranty

Symbol Technologies, Inc. (“Symbol”) manufactures its hardware products in accordance with industry-standard practices. Symbol warrants that for a period of twelve (12) months from date of shipment, products will be free from defects in materials and workmanship.

This warranty is provided to the original owner only and is not transferable to any third party. It shall not apply to any product (i) which has been repaired or altered unless done or approved by Symbol, (ii) which has not been maintained in accordance with any operating or handling instructions supplied by Symbol, (iii) which has been subjected to unusual physical or electrical stress, misuse, abuse, power shortage, negligence or accident or (iv) which has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of customer and is not covered under this warranty.

Wear items and accessories having a Symbol serial number, will carry a 90-day limited warranty. Non-serialized items will carry a 30-day limited warranty.

Warranty Coverage and Procedure

During the warranty period, Symbol will repair or replace defective products returned to Symbol’s manufacturing plant in the US. For warranty service in North America, call the Symbol Support Center at 1-800-653-5350. International customers should contact the local Symbol office or support center. If warranty service is required, Symbol will issue a Return Material Authorization Number. Products must be shipped in the original or comparable packaging, shipping and insurance charges prepaid. Symbol will ship the repaired or replacement product freight and insurance prepaid in North America. Shipments from the US or other locations will be made F.O.B. Symbol’s manufacturing plant.

Symbol will use new or refurbished parts at its discretion and will own all parts removed from repaired products. Customer will pay for the replacement product in case it does not return the replaced product to Symbol within 3 days of receipt of the replacement product. The process for return and customer’s charges will be in accordance with Symbol’s Exchange Policy in effect at the time of the exchange.

Customer accepts full responsibility for its software and data including the appropriate backup thereof.

Repair or replacement of a product during warranty will not extend the original warranty term.

Symbol’s Customer Service organization offers an array of service plans, such as on-site, depot, or phone support, that can be implemented to meet customer’s special operational requirements and are available at a substantial discount during warranty period.

Q u i c k R e f e r e n c e

General

Except for the warranties stated above, Symbol disclaims all warranties, express or implied, on products furnished hereunder, including without limitation implied warranties of merchantability and fitness for a particular purpose. The stated express warranties are in lieu of all obligations or liabilities on part of Symbol for damages, including without limitation, special, indirect, or consequential damages arising out of or in connection with the use or performance of the product.

Seller's liability for damages to buyer or others resulting from the use of any product, shall in no way exceed the purchase price of said product, except in instances of injury to persons or property.

Some states (or jurisdictions) do not allow the exclusion or limitation of incidental or consequential damages, so the proceeding exclusion or limitation may not apply to you.



Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are meeting with your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Regulatory Information

Radio Frequency Interference Requirements

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC Part 15. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio Frequency Interference Requirements - Canada

This Class B digital apparatus complies with Industry Canada Standard ICES-003. Cet appareil numérique de la classe B est conform à la norme NMB-003 d'Industrie Canada.

CE Marking and European Union Compliance



Products intended for sale within the European Union are marked with the CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included:

Applicable Directives

- Electromagnetic Compatibility Directive 89/336/EEC
- Low Voltage Directive 73/23/EEC

Applicable Standards

- EN 55022:1998, Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
- EN 55024:1998; Information Technology equipment - Immunity characteristics - Limits and methods of measurement
- IEC 1000-4-2:1995; Electromagnetic compatibility (EMC); Part 4:Testing and measurement techniques; Section 4.2:Electrostatic discharge immunity test
- IEC 1000-4-3:1997; Electromagnetic Compatibility (EMC); Part 4:Testing and measurement techniques; Section 3. Radiated, radio frequency, electromagnetic field immunity test.
- IEC 1000-4-4:1995; Electromagnetic compatibility (EMC); Part 4:Testing and measurement techniques; Section 4:Testing electrical fast transient./Burst immunity.
- IEC1000-4-5:1995; Electromagnetic compatibility (EMC), Part 4:Testing and measurement techniques; Section 5: Surge Immunity
- IEC 1000-4-6:1996; Electromagnetic compatibility (EMC), Part 4:Testing and measurement techniques; Section 6: Immunity to conducted disturbances, induced by radio frequency fields.
- IEC 1000-4-11:1994; Electromagnetic compatibility (EMC), Part 4: Testing and measurement techniques; Section 11: Voltage Dips, Short Interruptions, and Voltage Variations.
- EN 60 950 + A1+A2+A3+A4+A11 - Safety of Information Technology Equipment Including Electrical Business Equipment
- EN 60 825-1 (EN 60 825) - Safety of Devices Containing Lasers



Laser Devices

Symbol products using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the product.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

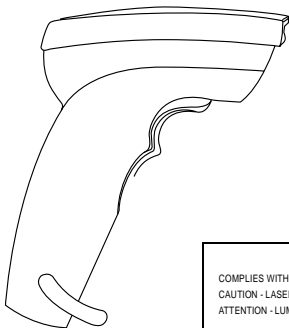
Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Quick Reference

Scanner Labeling

CAUTION	ACHTUNG LASERSTRAHL. LASERKLASSE 2 NICHT IN DEN STRAHL BLICKEN. LUMIERE LASER-NE PAS REGARDER DANS LE FAISCEAU APPAREIL A LASER DE CLASSE 2. CAUTION-LASER LIGHT, DO NOT STARE INTO BEAM, IEC CLASS 2 LASER PRODUCT 630 nm-680nm, 1.0 mW LASER.	
LASER LIGHT: DO NOT STARE INTO BEAM 630nm-680 nm LASER 1.0 MILLIWATT MAX OUTPUT CLASS II LASER PRODUCT		SEE QUICK REFERENCE GUIDE FOR PATENT COVERAGE AND LISTING
COMPLIES WITH US DHHS 21CFR1040.10 SUBCHAPTER J AND IEC 825-1:1993/EN 60825-1:1994		
VORSICHT! LASERSTRAHLUNG TRITT AUS, WENN DECKEL (ODER KLAPPE) GEOEFFNET IST! NICHT IN DEN STRAHL BLICKEN! ATTENTION - LUMIERE LASER EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU CAUTION - LASER LIGHT WHEN OPEN, AVOID DIRECT EYE EXPOSURE		



or

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

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



ENGLISH		HEBREW	
CLASS 1	CLASS 1 LASER PRODUCT		מוצר לייזר רמה 1
CLASS 2	LASER LIGHT DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT		רמה 1
DANISH			אור לייזר
KLASSE 1	KLASSE 1 LASERPRODUKT		רמה 2
KLASSE 2	LASERLYF SE IKKE IND I STRÅLEN KLASSE 2 LASERPRODUKT AL LASER DI CLASSE 2		אין להביט אל תוך הזרם מוצר לייזר רמה 2
DUTCH		ITALIAN	
KLASSE 1	KLASSE-1 LASERPRODUKT	CLASS 1	PRODOTTO AL LASER DI CLASSE 1
KLASSE 2	LASERLICHT NIET IN STRAAL STAREN KLASSE-2 LASERPRODUKT	CLASS 2	LUCE LASER NON FISSARE IL RAGGIOPRODOTTO
FINNISH		NORWEGIAN	
LUOKKA 1	LUOKKA 1 LASERTUOTE	KLASSE 1	LASERPRODUKT. KLASSE 1
LUOKKA 2	LASERVALO ÄLÄ TUJOTA SÄDETTÄ LUOKKA 2 LASERTUOTE	KLASSE 2	LASERLYS IKKE STIRR INN I LYSSTRÅLEN LASERPRODUKT. KLASSE 2
FRENCH		PORTUGUESE	
CLASSE 1	PRODUIT LASER DE CLASSE 1	CLASSE 1	PRODUTO LASER DA CLASSE 1
CLASSE 2	LUMIERE LASER NE PAS REGARDER LE RAYON FIXEMENT PRODUIT LASER DE CLASSE 2	CLASSE 2	LUZ DE LASER NÃO FIXAR O RAI0 LUMINOSO PRODUTO LASER DA CLASSE 2
GERMAN		SPANISH	
KLASSE 1	LASERPRODUKT DER KLASSE 1	CLASE 1	PRODUCTO LASER DE LA CLASE 1
KLASSE 2	LASERSTRAHLEN NICHT DIREKT IN DEN LASERSTRAHL. SCHAUEN LASERPRODUKT DER KLASSE 2	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

Q u i c k R e f e r e n c e

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

United States ¹	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	337-6588
Australia	1-800-672-906	Austria/Österreich	1-505-5794
Denmark/Danmark	7020-1718	Finland/Suomi	9 5407 580
France	01-40-96-52-21	Germany/Deutschland	6074-49020
Italy/Italia	2-484441	Mexico/México	5-520-1835
Netherlands/Nederland	315-271700	Norway/Norge	66810600
South Africa	11-4405668	Spain/España	9-1-320-39-09
Sweden/Sverige	84452900		
Latin America Sales Support	1-800-347-0178 Inside US +1-561-483-1275 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 208 945 7360		

¹Customer support is available 24 hours a day, 7 days a week.

For the latest version of this guide go to:<http://www.symbol.com/manuals>.



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