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SUR-GARD

From Tyco Security Products

system five

SG-System 5 v1.1

Installation Guide

For the complete installation manual, visit www.dsc.com

NOTE: This manual contains information about the use and function of the product, as well as the manufacturer's responsibility and restrictions that apply to you. The entire manual should be read carefully.

1.0 SG-System 5 Overview

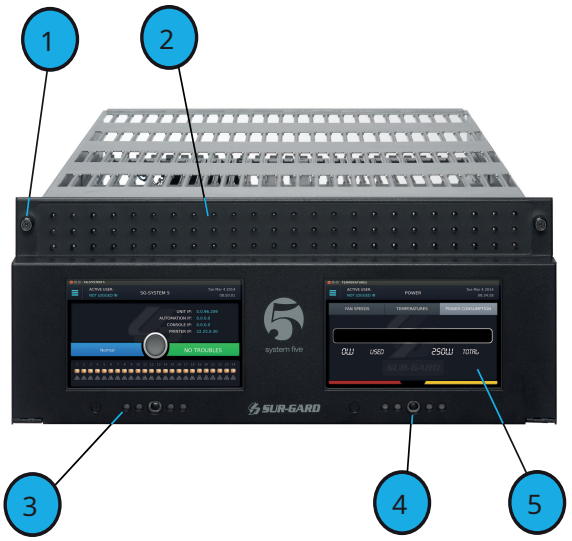
The SG-System 5 is a multi-platform receiver designed for remote monitoring of commercial fire and burglar alarm systems. The SG-System 5 can monitor up to 24 communication line cards.
(SG-DRL5-IP or SG-DRL5 / DRL5E / DRL5-2L) to receive and process alarm data in up to 64 pre-programmed profiles per line card. The SG-System 5's real-time clock date marks all
alarm signals received are then transmitted to a central station computer via TCP/IP or RS-232 port; transmitted directly to a printer using the serial printer port and/or
or TCP/IP; and is displayed on the front panel LCD screen while the receiver is in manual mode. Options can be programmed using a PC with the SG-System 5 Console or locally using the LCD screen.
touchscreen. Use this guide in conjunction with the SG-System 5 v1.1 Operating Manual, which can be accessed from the**dsc.com**website.

CPM redundancy

The SG-System 5 can be used in a redundant configuration using two SG-CPM5 units, where the primary SG-CPM5 backs up the secondary SG-CPM5 and vice versa. Under normal conditions, the
The primary SG-CPM5 is active and sends all signals to the printer and automation, while the secondary SG-CPM5 is on standby. If the primary fails, the secondary SG-CPM5 takes over.
It automatically becomes active in 30 seconds and begins sending signals to the printer and automation system. During the switch from standby to active, signal reception is not affected because the
Line cards can still receive signals. Output to the printer and automation is delayed by the time it takes to switch from standby to active mode.

Diagrams

FIGURE 1-1: SG-System 5 front with door closed



1.Wing screws to keep the front panel closed

2.Line card status indicators (top LED is watchdog, middle LED is status)
and the lower LED is the network)

3.SG-CPM5 status LEDs (from left to right: console, trouble, network,
guard dog, automation)

4.Quick Start button

5.7-inch resistive touch LCD screen

FIGURE 1-2: SG-System 5 front with door open

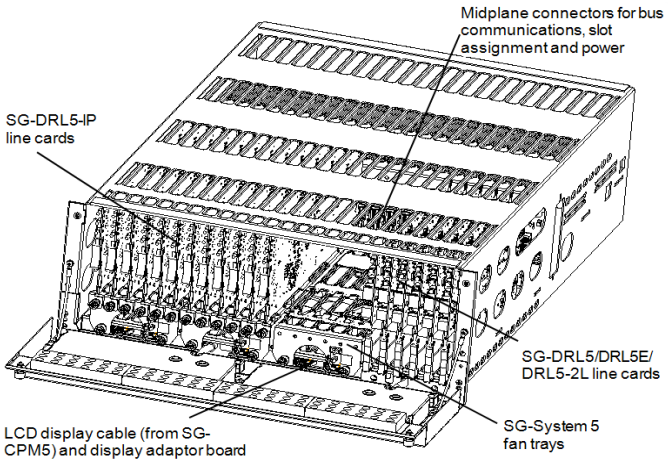
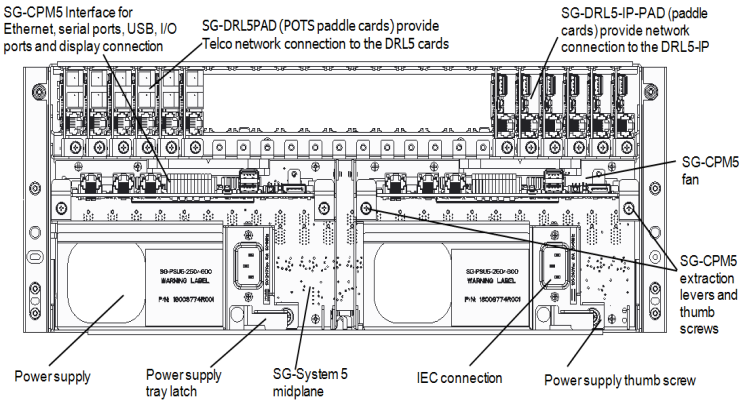


FIGURE 1-3: Back of SG-System 5



NOTE: Use only 26 AWG wires for Telco connections.

Description

The basic configuration consists of a 19-inch frame-mounted chassis comprising the following:

- SG-MLRF5 - Metal grille of the SG-System 5 with SG-MP5
- SG-PSU5-600: The 600W power supply unit provides power to all modules of the
- SG-PSU5-250 system: The 250W power supply unit provides power to all system modules
- SG-CPM5: The central processing module controls all communications to and from the receiver modules and printers. SG-UIB5: Interface of
- touchscreen user
- SG-DRL5-IP: Internet Protocol line card
- SG-DRL5-IP PAD - Paddle card for SG-DRL5-IP providing network connection SG-MLRF5-RM - Rails
- rack mountable
- SG-S5LFANTR - Card Fan Tray
- SG-S5CFANTR line - SG-CPM5 fan tray
- SG-S5SERCAB: Y-cable for serial connection to the SG-CPM5 for automation/printer SG-SYS5MEM4:
- removable eMMC memory
- SG-SYS5DDR31 - 1GB DDR3 RAM
- SG-CPM5BATT - Real-time clock battery SG-CPM5 SG-DRL5 -
- Single-line POTS card
- SG-DRL5E - Single-line POTS card with backup channel and 2-way audio bridge SG-DRL5-2L - Card
- Two-line POTS
- SG-DRL5PAD - Palette card for SG-DRL5 / DRL5E / DRL5-2L POTS cards SG-ADPT5 - Card
- adapter for SG-DRL5 / DRL5E / DRL5-2L POTS cards

2.0 Specifications

Dimensions

Depth:	27.5 in.	(69.85 cm)
Width:	19 in.	(48.26 cm)
Height:	7 in.	(17.78 cm)
Rack space required:	4U	

SG-System 5 UL Electrical:

Input voltage:	100-240 VAC, 50/60 Hz.
Input current 600W:	8 A max. (RMS) at 100 V AC 3 A
Input current 250W:	max. (RMS) at 100 V AC External
Backup power supply:	UPS (not included)

In a two-SG-CPM5 configuration, a redundant SG-PSU5 can be inserted in the second slot. In the event of an SG-PSU5 failure, the redundant SG-PSU5 automatically takes over operation.

The modules are hot-swappable (they can be removed and replaced while the system is running) if a redundant and operational SG-PSU5 is installed. Both PSU units used in the

The systems must have the same nominal power.

Environmental:

Temperature:	0-49°C (32-120°F) 93% RH, without
Humidity:	condensation

Accounts:

ULC line security levels:	A1-A4 (active channels) or P1-P3 (passive channels)

Printers (UL/ULC certified facilities):

Serial:	Seiko DPU-414
DACT-compatible communication formats (ULC passive channels): Encryption:	SIA, CID 128-bit AES

3.0 Approvals

Industry approvals

- UL 1610 Central Station Burglar Alarm Units
- UL 864 10th Edition Standard for Control Units and Accessories for CAN Fire Alarm Systems /
- ULC-S304-16 Signal Receiving Center and Premises CAN Anti-theft Alarm Control Units / ULC-S559-13 Equipment for
- Fire signal receiving centers and systems EN60950-1: 2006 Standard for fire technology equipment
- information.
- AS/NZS 60950.1:2003 Information technology equipment - Security
- Information technology equipment CISPR22 Class B - Radio disturbance characteristics - Limits and measurement methods EN50130-4 Immunity requirements for
- components of social, fire and intruder alarm systems
- NIST Validation Certificate number 2913 for 128-bit AES encryption.

For UL listed installations, equipment must be installed in accordance with the requirements of NFPA72, NFPA70, UL827 and the authority having jurisdiction.

The SG-System 5 with SG-DRL5-IP line card is ULC listed for active communication channel security level A1 - A4 when used in conjunction with T-Link TL250, T-Link TL300, TL260, TL260GS, GS2060, 3G2060(R), TL2603G(R), 3G3070(RF)(CF), TL2803G(R), 3G2080(R), TL280(R), TL2803G(E)(R), 3G2080(E)(R), TL280(E)(R), Alarm Communicators Internet / Intranet and/or GSM-GPRS 3G4000 and 3G4010. For this type of application, monitoring and encryption functions must be enabled. The receiver can also be used in conjunction with the ULC-listed passive communication systems according to the configuration of the systems in the protected premises.

For ULC installations, the equipment must be installed in accordance with the requirements of ULC-S561 and ULC-S301 standards and the relevant authority. The SG-System 5 with SG-DRL5/DRL5E/DRL5-2L POTS line cards is ULC listed for passive communication channel security levels P1-P3 when used with compatible alarm systems that use Industry Open SIA Contact ID or SIA standard communication formats.

This product has been approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code. See CSFM listing No. 7300-1273.

0157 to learn about the permitted values and/or conditions of use in relation to the material presented in this document. Approval is subject to review, revision, and possible cancellation.

UL864 Programming Requirements

NOTE: Users, Installers, Authorities with Jurisdiction and other involved parties; this product incorporates field-programmable software merchandise. In order for the product to meet the requirements of the Standard for Control Units and Accessories for Fire Alarm Systems, UL 864, certain characteristics or Programming options should be limited to specific values or not used at all as indicated below.

SG-CPM5 - UL864 Programming Requirements				
Opt #	**Program option**	**Allowed in UL864? (Y/N) Configuration**	**ones possible Configure**	**cpermitted ions (UL 864)**
202	Buzzer	north	Enabled Disabled	Enabled
411	Heartbeat timer	AND	00-FF	Not allowed 00
601	CPM5 1 Fan Problem	north	Enabled Disabled	Enabled
602	CPM5 2 Fan Problem	north	Enabled Disabled	Enabled
603	PSU Problem 1	north	Enabled Disabled	Enabled
604	PSU Problem 2	north	Enabled Disabled	Enabled
609	UPS AC Problem 1	north	Enabled Disabled	Enabled
610	UPS AC 2 Problem	north	Enabled Disabled	Enabled
611	UPS Battery 1 Problem	north	Enabled Disabled	Enabled
612	UPS Battery 2 Problem	north	Enabled Disabled	Enabled
615	Automation Problem Sec 1 SG Series	north	Enabled Disabled	Enabled
617	Serial CPM 1 Printer 1 Fault Serial CPM	north	Enabled Disabled	Enabled
618	2 Printer 1 Fault Serial CPM 1 Printer 2	north	Enabled Disabled	Enabled
619	CPM 2 Serial Failure Printer 2 Failure	north	Enabled Disabled	Enabled
620	SG-TCP Automation Pri - SG-TCP Fault	north	Enabled Disabled	Enabled
621	Automation Sec - 1 Fault	north	Enabled Disabled	Enabled
631		north	Enabled Disabled	Enabled
665	TCP Printer Pri - 1 TCP Problem	north	Enabled Disabled	Enabled
675	Printer Sec - 1 Problem	north	Enabled Disabled	Enabled

SG-DRL5-IP				
Opt #	**Program option**	**Permitted under UL 864 (Y/N)**	**Possible settings**	**Permitted configurations (UL 864)**
221	Transmitter Rebound Time Out Restoration	north	5-65535	200
222	Transmitter bounce time	north	5-65535	200
301	Unencrypted problem	north	Enabled Disabled	Enabled
302	Problem with unknown account	north	Enabled Disabled	Enabled
303 Pro	problem of exceeded supervised accounts	north	Enabled Disabled	Enabled

SG-DRL5-2L / DRL5E / DRL5				
Opt #	**Program option**	**Allowed in UL 864? (Y/N) Configuration**	**ones possible configurations**	**permitted ions (UL 864)**
104/204	Bidirectional activation time	north	00-FF	00
12F / 22F Code	4 and 5 digit account codes to activate two-way audio 17B / 27B	north	00-FF	00
	3-digit account codes to activate two-way audio 17C /	north	00-FF	00
27C	Alarm codes to activate two-way audio	north	00-FF	00
17D / 27D	Issues with supervised accounts overcome	north	00-FF	00

Printers

Serial printer

For UL and ULC certified applications, the following UL/ULC certified printer can be used with SG-System 5:

- Seiko DPU-414

TCP/IP Printer

For UL-certified applications, the UL-certified SG-System 5 console software can be used with SG-System 5.

NOTE: For applications listed by ULC, the Console Printer application is considered complementary and is only permitted for use in conjunction with...

connection with a ULC-listed compatible printer.

SG-System 5 Console Software System Requirements

Compatible operating systems:

- Microsoft Windows 2008 Server (32 and 64 bit) Microsoft
- Windows 7 (32 and 64 bit)
- Microsoft Windows 8 (32 and 64 bit) Microsoft
- Windows 8.1 (32 and 64 bit) Microsoft Windows 10
- (32 and 64 bit)

NOTE: Requires .NET Framework 3.51.

Hardware requirements:

- Intel Atom CPM at 1.6 GHz and 1 GB of RAM

NOTE: DO NOT use printer cables that only have one common ground wire.

UL Manual Mode

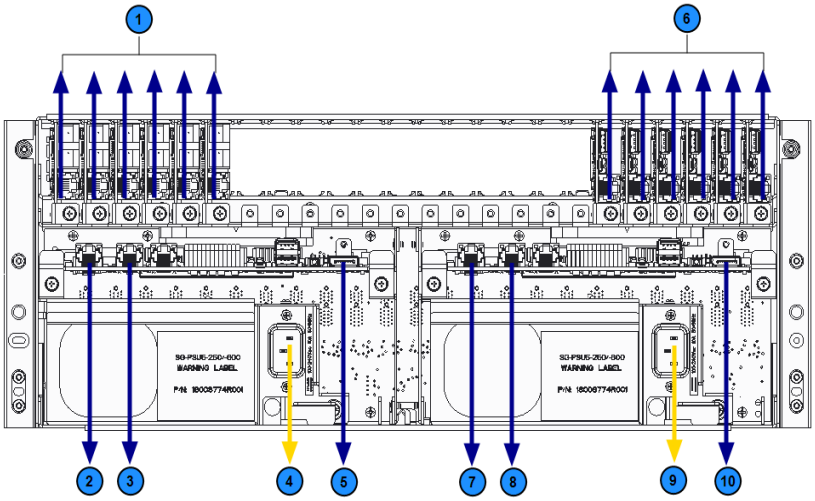
In ULManual mode, each event triggers the internal buzzer for manual recognition. Each event is automatically sent to the connected printer.

NOTE: A user must log in before the signals will be recognized. A logged-in user remains logged in until a new user enters a valid username.

name and password or if the SG-CPM5 restarts or reboots.

SG-System 5 Limited Power Circuit Separation

FIGURE 1-4: Separation of the power-limited circuit of the SG-System 5 from the circuit diagram without power limitation



1. Telephone connections of the secondary line card Ethernet connection
2. Secondary SG-CPM5 Printer Port and Automation SG-CPM5
3. Secondary AC power connection SG-PSU5 (see note)
4. SG-CPM5 Secondary Display Connection
5.
6. Primary line card Ethernet connections Primary Ethernet connection
7. SG-CPM5 Printer Port and Primary SG-CPM5 Automation
8. Main AC power connection SG-PSU5 (see note)
9.
10. SG-CPM5 Main Display Connection

NOTE: Use only 26 AWG wires for Telco connections.

NOTE: The power cord must be placed 1/4 inch away from all other cables coming from or part of the SG-System 5.

SG-System 5 POTS load capacity of search groups					
	Number of lines in the search group				
System load at the monitoring station	1	2	3	4	5-8
Number of initiating circuits	N/A	5000	10000	20000	20000
DACT Number	N/A	500	1500	3000	3000
	With DACR lines processed in series 3000				
Number of initiating circuits	N/A		5000	6000	6000
DACT Number	N/A	300	800	1000	1000

Limited warranty

Digital Security Controls warrants to the original purchaser that for a period of twelve months from the date of purchase, the product will be free from defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls, at its option, will repair or will replace any defective product upon return of the product to its factory, free of charge for labor and materials. Any replacement and/or The repaired part is warranted for the remainder of the original warranty or for ninety (90) days, whichever is longer. The original purchaser must immediately notify Digital Security Controls in writing that there is a defect in the material or workmanship, and such written notification It must be received in all cases before the expiration of the warranty period. There is absolutely no warranty on the software and all The software products are sold under a user license agreement, governed by the terms of the software license agreement included with the product. Customer assumes full responsibility for the proper selection, installation, operation and maintenance of any product purchased from DSC. Customized products are only guaranteed to the extent that they do not function upon delivery. In such cases, DSC may replace or credit your choice.

International Guarantee

The warranty for international customers is the same as for any customer within Canada and the United States, with the except that Digital Security Controls will not be responsible for any duties, taxes or VAT owed.

Warranty procedure

To obtain service under this warranty, return the items in question to the point of purchase. All distributors and dealers Authorized service providers have a warranty program. Anyone returning products to Digital Security Controls must first obtain a warranty. Authorization number. Digital Security Controls will not accept any submission for which prior authorization has not been obtained.

Conditions for cancelling the warranty

This warranty applies only to defects in parts and workmanship related to normal use. It does not cover:

- damages incurred during shipping or handling;
- damage caused by disasters such as fires, floods, winds, earthquakes or lightning;
- damage due to causes beyond the control of digital security controls, such as excessive voltage, mechanical shock or water damage;
- damages caused for unauthorized accessories, alterations, modifications or foreign objects;
- damages caused by peripherals (unless such peripherals were supplied by Digital Security Controls); defects caused
- for failing to provide a suitable installation environment for the products; damage caused for using the products for purposes other than
- to those for which they were designed; damage due to inadequate maintenance;
-
- damages resulting from any other abuse, misuse, or improper application of the products.

Items not covered by the warranty

In addition to the items that void the Warranty, the following items will not be covered by the Warranty: (i) shipping cost to the service center repair; (ii) products that are not identified with the DSC product label and lot number or serial number; (iii) products disassembled or repaired in such a way as to adversely affect performance or prevent proper inspection or testing to verify Any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at your option. Products not covered by this warranty, or out of warranty due to age, misuse, or damage, will be evaluated and replaced. will provide a repair estimate. No repair work will be performed until a valid purchase order is received from the Customer and DSCs issue a Return Merchandise Authorization (RMA) number.

Customer service.

Digital Security Controls' liability for failing to repair the product under this warranty after a reasonable time

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This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls recommends that the entire system be fully tested on a base ular. However, despite frequent testing and due to, among other things, criminal tampering or power outages, it is This product may not work as expected.

Installer Lock

Any product returned to DSC that has the installer lock option enabled and does not present other problems will be subject to a service charge.

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Digital Security Controls, at its option, will repair or replace out-of-warranty products returned to its factory in accordance with The following conditions apply. Anyone returning products to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment that- anything for which prior authorization has not been obtained. Products that Digital Security Controls determines are repairable will be repaired and returned. A set a rate that Digital Security Controls has predetermined and that may be reviewed from time to time,

A fee will be charged for each unit repaired.

Products that Digital Security Controls determines cannot be repaired will be replaced with the closest available product. equivalent product available at that time. The current market price of the replacement product will be charged for each unit of replacement.

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WARNING GRAM:DSC recommends that the entire system be fully tested on a regular basis. However, despite fre Frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, may result in the PRODUCT possible for the SOFTWARE does not work as expected.

FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls

They could revoke your authority to use this equipment.

This equipment has been tested and meets the limits for a Class B digital device, according to Part 15 of the FCC Rules. These limits are designed to provide protection reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that it will not occur. interference at a particular installation. If this equipment causes harmful interference to the reception of radio or television, which can be determined by turning the equipment on and off, the user is advised that attempts to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to a power outlet on a different circuit than the one the receiver is connected to.
- Consult your dealer or an experienced radio/TV technician for assistance.

The user may find the following brochure prepared by the FCC helpful: “How to Identify and Resolve Problems radio/television interference.” This pamphlet is available from the U.S. Government Printing Office, Washington DC 20402, ref. 004-000-00345-4.

Important information

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the side of this device there is a label that contains, among other information, an identifier of product in the format WE: AAAEQ ## TXXXX. If requested, this number must be provided to the telephone company.

SG-DRL5 / DRL5E / DRL5-2L line cards

Product identifier: USA: F53AL01ADRL5

USOC connector: RJ-21X

REN = 0.1 A

Telephone connection requirements

A plug and socket used to connect this equipment to the building's wiring and the telephone network must comply with applicable FCC Part 68 rules and Requirements adopted by ACTA. This product includes a compatible telephone cable and modular plug. It is designed to connect to a compatible modular connector. See installation instructions for details.

Stamp Equivalency Number (REN)

The REN is used to determine the number of devices that can be connected to a telephone line. An excessive number of RENs on a telephone line can cause devices to not ring in response to an incoming call. In most, but not all, areas, the sum of the RENs must not exceed five (5.0). To be certain of the number of devices that can be connected to a line, as determined by the total REN, contact your local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier, which has the format: US: AAAEQ ## TXXXX.

Digits represented by ## are the REN without a decimal point (for example, 03 is a REN of 0.3). For products Previously, the REN was shown separately on the label.

Incidence of damage

If this SG-SYSTEM 5 equipment causes damage to the telephone network, the telephone company will notify you in advance that it may be necessary to temporarily interrupt service. However, if advance notice is not practical, the telephone company will notify you as soon as possible. You will also be informed of your right to file a complaint with the FCC if you believe it is necessary.

Changes to the telephone company's equipment or facilities

The Telephone Company may make changes to its facilities, equipment, operations, or procedures which could affect the equipment's operation. If this happens, the Telephone Company will notify you. advance notice so that you can make the necessary adjustments to maintain uninterrupted service.

Equipment maintenance installation

If you are experiencing problems with this SG-SYSTEM 5 equipment, for repair or warranty information, Contact the facility listed below if the equipment is causing network damage.

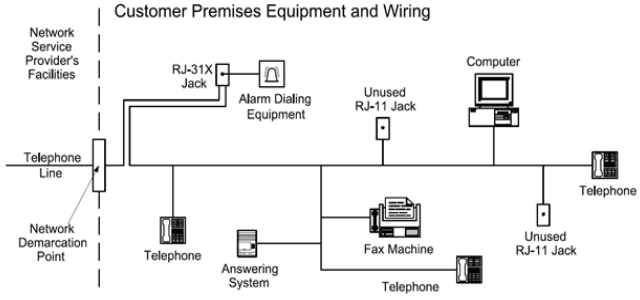
The telephone company may ask you to disconnect the equipment until the problem is resolved.

Problem. This type of equipment is not intended to be repaired by the end user.

Tyco Atlanta Distribution Center, 2600 West Pointe Dr., Lithia Springs, GA, 30122 USA.

Additional information

Connection to shared line service is subject to state fees. Contact your state utility commission, public services commission, or corporations commission for information. The alarm dialing equipment must be able to take over the telephone line and place a call in an emergency. It must be able to do this even if other equipment (telephone, answering machine, computer modem, etc.) is already using the telephone line. To do this, the alarm dialing equipment must be connected to a properly installed RJ31X connector that is electrically in series with and before all other equipment connected to the same telephone line. Proper installation is shown in the following figure. If you have any questions about these instructions,



Innovation, science and economic development Canada

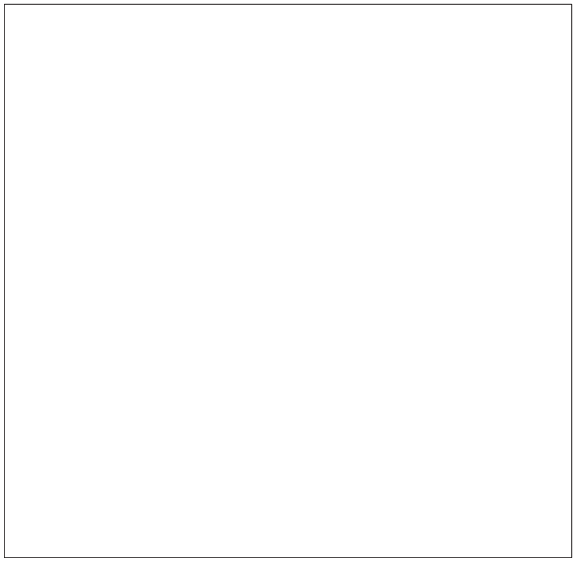
SG-System 5 IC: CAN ICES-3 (B) / NMB-3 (B) SG-DRL5 / DRL5E / DRL5-2L IC: 160A-DRL5

NOTICE: This equipment complies with the technical standards for Innovation, Science and Economic Development Terminal Equipment (ISED) in Canada.

Specifications. This is confirmed by the registration number. The abbreviation IC before the number
Registration means that the registration was carried out based on a Declaration of Conformity that indicates that it
They met ISED's technical specifications. This does not imply that ISED has approved the equipment.
NOTICE: The ring equivalence number (REN) for this terminal is 0.1 when using the card of
model line SG-DRL5-2L, SG-DRL5E or SG-DRL5. The REN assigned to each terminal equipment
It provides an indication of the maximum number of terminals that can be connected to an interface.
Telephone. Termination at an interface can consist of any combination of devices
subject only to the requirement that the sum of the Stamp Equivalence Numbers of all the
devices do not exceed five.

The sonnerie equivalence index (IES) serves to indicate the maximal name of teSrminaux that can be linked to a telephone interface. The termination of an interface may consist of a specific combination of devices, under the condition that the number of equivalent indices of the sound of all devices does not exceed 5.

R & TTE Declaration of Conformity



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