READERS

■ All readers will work up to 150m from the door controller, apart from Sagem biometric readers which will work up to 100m from the door controller

GB/MDK900   GB/MDR900
Multi-discipline readers

GB/WDP900   GB/WKM900   GB/WMK900

GB/WMR900   GB/WPK900   GB/WPR900
Wiegand readers

GB/XTA902   GB/XTA906
Time and attendance readers

GB/XQT904 and GB/UHR903

MULTI-DISCIPLINE READERS

GB/MDK900	Multi-discipline reader capable of reading Impro Wiegand and Mifare cards as well as HID, iClass, Marin, Philips Mifare, Philips Desfire and Sony Felica cards. Indoor or vandal resistant outdoor use, in mark resistant 304 stainless steel cover. Support for both 125Khz and 13.56MHz tags and compatible with 3rd party systems using the Wiegand 44 bit output. Includes anti-tamper switch. L: 95mm, W: 45mm, H: 15mm.
GB/MDR900	Multi-discipline keypad reader capable of reading Impro Wiegand and Mifare cards as well as HID, iClass, Marin, Philips Mifare, Philips Desfire and Sony Felica cards. Indoor or vandal resistant outdoor use, in mark resistant 304 stainless steel cover. Support for both 125Khz and 13.56MHz tags and compatible with 3rd party systems using the Wiegand 44 bit output. Includes anti-tamper switch. L: 95mm, W: 45mm, H: 15mm.

WIEGAND READERS

GB/WDP900	Wiegand panel mount reader for use in vandal resistant door entry panels, bi-coloured LED with no buzzer. Supplied with 8m of cable.
GB/WKM900	Wiegand mullion keypad reader, charcoal ABS plastic, with single bi-coloured red/green status LED and buzzer. L: 116mm, W: 38mm, H: 19mm.
GB/WMK900	Wiegand metal keypad reader, indoor or outdoor use, with a single bi-coloured red/green status LED and buzzer. 12 button alphanumeric keypad for PIN code entry. L: 143mm, W: 76mm, H: 28mm.
GB/WMR900	Wiegand circular metal reader, indoor or outdoor use in harsh environments, includes a single bi-coloured red/green status LED and a buzzer. Diameter 76mm, H: 28mm.
GB/WPK900	Wiegand ABS keypad reader, indoor or outdoor use, with a single bi-coloured red/green status LED and buzzer. 12 button alphanumeric keypad for Personal Access Code or PIN code entry. Charcoal ABS plastic. L: 115mm, W: 81mm, H: 32mm.
GB/WPR900	Wiegand ABS reader, indoor or outdoor use, with single bi-coloured red/green status LED and buzzer. Charcoal ABS plastic. L: 88mm, W: 54mm, H: 25mm.

TIME AND ATTENDANCE READERS

GB/XTA902	Time and attendance combined controller and reader for internal use. Can be connected directly onto the RS485 bus, a maximum of 15 per IXP220 controller. Single line 16 character LCD with backlight and 4 keys for time and attendance purposes, a single bi-coloured red/green status LED, 2 relay outputs, 4 digital inputs and a buzzer.
GB/XTA906 (made to order)	Industrial time and attendance combined controller and reader for outdoor use. Can be connected directly onto the RS485 bus, a maximum of 15 per IXP220 controller. Single line 16 character LCD with backlight, and 4 keys for time and attendance purposes, a single bi-coloured red/green status LED, 2 relay outputs, 4 digital inputs and a buzzer.

VEHICLE ACCESS RECEIVERS AND TRANSMITTERS

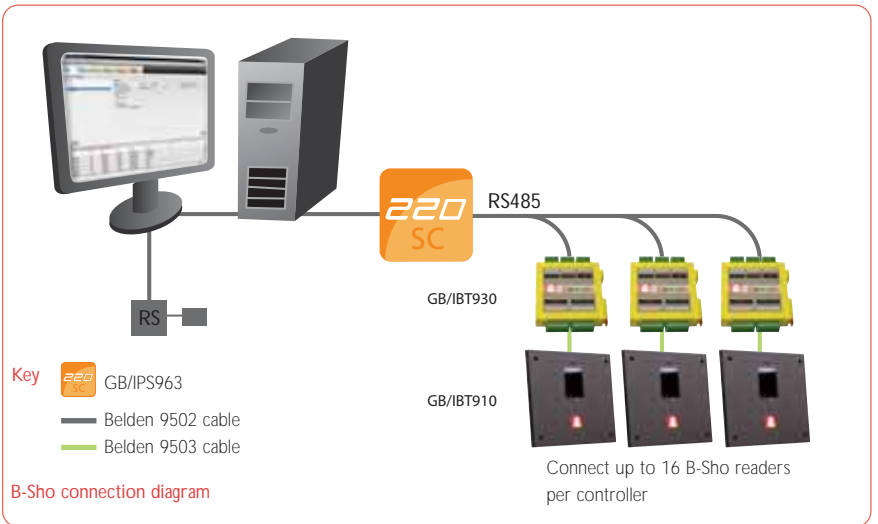|	
GB/UHR903	Radio frequency vehicle access receiver (use with the GB/XQT904 transmitter). Connect 2 vehicle receivers per IXP220 (GB/IPS963) system controller or GB/IPS920i door controller with the GB/UHR903 being within 10m of the controller.
GB/XQT904	UHF hand-held 4 button 433MHz transmitter, each of the 4 push buttons are used to transmit a different channel identification code together with the transmitter's ID to the receiver. Acts as a normal tag with Impro prox readers. Small in size (60mm l x 45mm w x 15mm h). Made of blue plastic with grey push buttons. Manufactured in accordance with IP56. Works on 125Khz frequency. Range up to 50m line of sight when used with a UHF receiver. As a passive tag the range is approximately 50mm.
GB/ITR901	Infrared receiver (use with the GB/IVT900 vehicle transmitter that requires installation in the vehicle). Connect 2 vehicle receivers per IXP220 (GB/IPS963) system controller or GB/IPS920i door controller with the GB/ITR900 being within 8m of the controller.
GB/IVT900	Impro infrared vehicle transmitter, for use with GB/ITR901 receiver. Intended to be installed in a vehicle and mounted internally for hands-free automatic operation. Approximate range 6m. 12V DC. Length 40.5mm, width 42.7mm, height 40.5mm. Moulded from heat-resistant polycarbonate in dark red.

GB/XQT904   GB/UHR903   GB/ITR901   GB/IVT900

GB/XDB902   GB/XDB903

Drop box readers

GB/XIT900   GB/XOT900

Input/output terminals

GB/IBT902   GB/IBT930

GB/IBT910

B-Sho biometric readers

100m cable distance
from controllers

RS485

Key
GB/IPS963
DC GB/IPS920i
Belden 9502
cable

IP   IP   IP   IP

TCP/IP connection required

Sagem connection diagram

GB/SMA100   GB/SMSO300

GB/SMA500   GB/SOMA520

Sagem biometric readers

DROP BOX READERS

GB/XDB902	Vertical mount drop box reader, a tag reading terminal which retains inserted tag. It provides access control to one door in full anti-passback mode. Also supports the use of 3rd party credit card tags. Made from stainless steel and ABS plastic, the drop box is suitable for both indoor and selected outdoor applications. Outdoor applications require that a custom, watertight box is used for the installation. The Impro drop box offers 9 pre-set LED 'diagnostic indicators' for the installer.
GB/XDB903	Vertical mount drop box with housing. Connects directly to the RS485 terminal bus. Mild steel powder coated frame. The unit includes tag capture unit, lockable door, internal 125KHz reader, 2 relays, 4 digital inputs (2 x door open sensor inputs, 2 x request to enter/exit input) and a buzzer. A second Impro reader can be connected for permanent tagholders. Dimensions of 28cm in depth, 23cm in width and 111cm in height.

INPUT/OUTPUT TERMINALS FOR BUILDING MANAGEMENT

GB/XIT900	16 channel input terminal
GB/XOT900	16 channel output terminal. Required for lift control

B-SHO BIOMETRIC READERS

Key
GB/IPS963
— Belden 9502 cable
— Belden 9503 cable

GB/IBT930
GB/IBT910

Connect up to 16 B-Sho readers
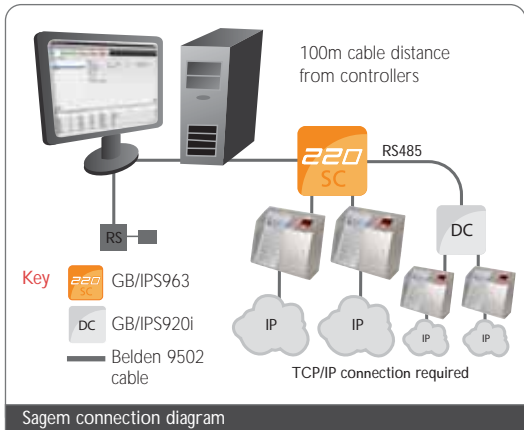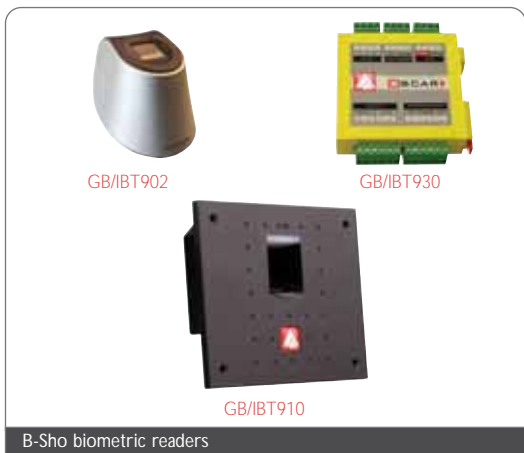per controller

B-Sho connection diagram

- Supports intelligent distribution of templates
- Up to 500 users per B-Sho reader (1,000 templates in total - 2 templates per user)
- Connected via RS485 avoiding unnecessary TCP/IP network infrastructure
- Standard with Mifare tag support
- Cost-effective implementation of system and no need for IP backbone
- 2 B-Sho readers can be controlled from one IXP220 (GB/IPS963) system controller or GB/IPS920i door controller
- Seamless integration allowing fingerprint enrolment through the tagholder configuration screen
- Optical sensor with 500dpi resolution
- 3 FAR (False Acceptance Ratio) settings offering flexibility and a high level of security
- OSCAR relay unit providing door monitoring and door control, allowing access to relays
- Supports multiple modes, including Fingerprint, Fingerprint or Tag, and Fingerprint and Mifare Tag
- Easy installation, as with all Impro terminals

GB/IBT902	B-Sho Enrollment Reader
GB/IBT910	B-Sho Reader
GB/IBT930	B-Sho Oscar Door Control Unit

SAGEM BIOMETRIC READERS

GB/SMSO300	Sagem USB Enrolment Reader. Used to facilitate central enrolment of finger templates. Connects to the enrolment PC using USB complete with a high quality optical scanner. Must be sold with GB/SVERIF and GB/ISL903.
GB/SVERIF	Sagem Verification USB Dongle. Allows central enrolment through to support high quality enrolment and template quality check and speeds up print read times. Decreases upload time to the Sagem readers. Must be sold with both the GB/SMSO300 and GB/ISL903.
GB/SMA100	Sagem Biometrics Reader. Supports 500 users with 2 templates each and connects to a TCP/IP network.
GB/SMA500	Sagem Biometrics Reader. Supports 3,000 users with 2 templates each and connects to a TCP/IP network.
GB/SOMA520	Sagem Outdoor Biometrics Reader. Supports 3,000 users with 2 templates each and connects to a TCP/IP network.
GB/SMAX	Sagem extended licence for the GB/SMA500 and GB/SOMA520 to 50,000 users.
GB/ISL903	Impro touch Sagem biometric integration unlock code for IXP220.