

Spectrum EX-JB-SCS-ISTAR

Class I/II, Division 1 - UL Listed Industrial Control Panel
 with Contactless Badge Reader



Description

Spectrum EX-JB-SCS-ISTAR is a UL listed industrial control panel, hazardous-area certified for Class I/II, Division 1, groups B,C,D, E, F, G, T5. The industrial control panel is a powerful, IP edge access control device that provides a strong feature set to secure any door. Spectrum EX-JB-SCS-ISTAR increases overall system reliability by providing localized decision making at each door. The controller has a robust local cardholder database of over 400,000 personnel records and local alarm and event buffering in the event communication to the host is unavailable. It is also designed to withstand shock, vibrations and temperatures from -20°C to +40°C (-4°F to +104°F), making it perfect for high demanding installations.

Features

- Certified Class I/II, Division 1 Groups B, C, D, E, F, G
- Operating Temperature range: -20°C to +40°C (-4°F to +104°F)
- Controls and powers all access control devices at the door to minimize installation costs.
- Powerful iStar feature set including anti-pass back and advanced peer-to-peer clustering
- Localized access control decision-making with storage for over 400,000 personnel records.
- Local LCD and LED's provide clear startup
- AES 256 network encryption; FIPS 197 listed
- Compatible with C·CURE 9000 and C·CURE 800/8000
- Dedicated input for fire alarm interlock releases door locks during fire conditions
- Contactless smart card reader

Specifications

Explosion-proof Junction Box

General

Dimensions	254 x 101.6 x 152.4 mm (10 x 14 x 6 in.)
Weight	11 kg (25 lbs)
Material	Aluminum
Operating Conditions	-20°C to +40°C (-4°F to +104°F)
UL Listed File Number	E481600

Electrical

Input	100-240VAC/VDC, 10A, 50/60 Hz
Output	12-30 VDC , 3 A MAX

System Memory

Memory	64 MB RAM, 128 MB flash EEPROM
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Cardholder capacity

One clearance, one card/ person, 10-digit cards	400,000
Ten clearances, one card/ person, 10-digit cards	230,000
One clearance, five cards/ person, 10-digit cards	130,000
Ten clearances, five cards/ person, 40-digit cards	85,000

Note - Memory allocation is dynamic and shared between card holders, event storage, and configuration information

Network Communications

Ethernet Ports	One, 10/100Base-T
Network Encryption	AES 256-bit, FIPS 197

Readers

Number of readers supported	One, two, or four
Types of readers supported	Wiegand and RM (RM only for 3 and 4)
Reader Technologies Supported	Multi-Technology, Proximity, Smart Card (incl. PIV II & TWIC), Wiegand and Magnetic Stripe (RM only)
Maximum Distance to Door	RM: 1,219 m (4,000 ft); Wiegand: 150 m (500 ft)
Reader Power Available	12 VDC, 1.5 A total (including aux power and RM port power)
RM Bus Communications	Three ports, RS-485 half duplex, two wire, plus optional two wires for device power (One-reader model does not have RS-485 ports)

Regulatory

Access & Burglar	UL 294, UL 1076, ULC/ORD C1076, CSA C22.2 No. 205
Fire	UL 2043 (for use in plenum air handling spaces)
Safety	EN 60950, IEC 60950 (2- or 4-reader only)
EMI/EMC	FCC Part 15 Class A (Class B with shielded Ethernet cable), EN 55022, EN 55024, EN 50130-4, AS/NZS CISPR 22, ICES-003
Physical	EN 50130-5, EN 50133-1
Encryption	FIPS 197
Environmental	RoHS
International	CE, cULus, C-Tick
Explosion-proof Certifications	cULus E481600 UL 1203 UL 508A Class I/II Division 1 Groups B,C,D, E, F, G

Specifications



Explosion-proof badge reader

General

Housing Dimensions	171 x 171 x 76 mm (6 ¾ x 6 ¾ x 3 in.)
Model Name	R40
Base Part Number	920N
Typical Range	13.56 MHz Single Technology ID-1 Cards – SIO Data Model iCLASS Seos: 3.2" (8 cm) iCLASS: 5.2" (13 cm) MIFARE Classic: 3.9" (10 cm) MIFARE DESFire EV1/EV2 3.2" (8 cm)
	13.56 MHz Single Technology Tags/Fobs – SIO data Model iCLASS: 2.8" (7 cm) MIFARE Classic: 2.0" (5 cm)
Keypad	No
Operating voltage Range	5 - 16 VDC
Current Draw - Standard Power Mode ² (mA)	65 @ 16V
Current Draw - Intelligent Power Management (IPM) Mode ² (mA)	40 @ 16V
Peak Current Draw - Standard Power or IPM Mode ² (mA)	200 @ 16V
NSC ³ Power Consumption - Standard Power Mode	1.0 @ 16V
NSC ³ Power Consumption - w/ IPM	0.6 @ 16V
Operating Temperature	-35°C to +65°C (-31°F to +150°F)
Storage Temperature	-55°C to +85°C (-67°F to +185°F)
Operating Humidity	5% to 95% relative humidity non-condensing
Transmit Frequency	13.56 MHz
13.56 MHz Card Compatibility	Secure Identity Object™ (SIO) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default) - MIFARE Classic and MIFARE DESFire EV1 custom data models - standard iCLASS Access Control Application (order with Standard interpreter) - ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - FeliCa™4 CSN, CEPAS4 CSN or CAN - MIFARE DESFire EV2 via EV1 backward compatibility
Communications	Wiegand, Clock-and-Data, Open Supervised Device Protocol (OSPD) via RS485
Panel Connection	Pigtail or Terminal Strip
Reader Management	HID Reader Manager Mobile App for HID Mobile Access / OSDP infield upgrade, configuration, firmware upgrade and diagnostics
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan) ⁴
Crypto Processor Hardware Common Criteria Rating	EAL5+
Patents	www.hidglobal.com/patents
UL Ref Number	R40E



Approvals

		8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA
FILE: E481600	SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY	INDUSTRIAL CONTROL PANEL
ENCLOSURE FOR USE IN HAZRD LOCATIONS. AS TO EXPLOSION AND FIRE HAZARD ONLY.	DRAWING NUMBER: EX-JB-SCS-ISTAR	MODEL: EX-JB-SCS-ISTAR SERIAL:
CLASS II, DIVISION 1 GROUP B,C,D,E,F,G T5 Tamb -20°C TO +40°C, Type 4 SSCR:N/A		
Input Voltage: 100-240VAC/VDC, 10A, 50/60 Hz Output Voltage: 12-30 VDC, 3 A MAX		
WARNING: THIS ENCLOSURE HAS BEEN MANUFACTURED FOR THE INSTALLATION OF SUPPLY CONNECTIONS (CONDUITS) AND UL LISTED OPEN TYPE AUXILIARY DEVICES TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES. ALL NONUSED COVER OPENINGS MUST BE CLOSED WITH THE RATED CLASS I, GROUPS B,C,D,E,F,G AND TYPE 4X (REQUIRED FOR TYPE 4 RATINGS) PLUGS AND CONDUIT. CLOSE UP PLUGS MUST BE RATED FOR THE SAME HAZARDOUS LOCATION CLASSES AND GROUPS ARE MARKED ON THE ENCLOSURE NAMEPLATE. KEEP ASSEMBLY TIGHTLY CLOSED WHEN IN OPERATION SPECTRUM CAMERA SOLUTIONS, HOUSTON, TEXAS		