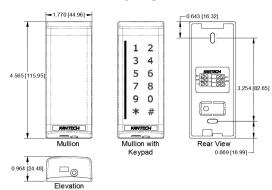
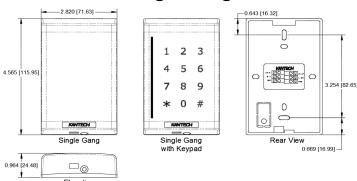


## Mullion



## Single Gang



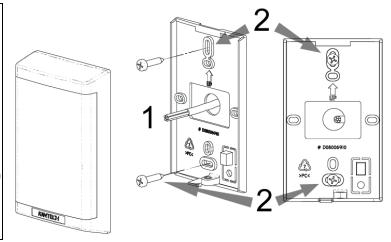
Technical Specifi	cations									
Model	del		KT-MUL-MT-KP/KT-MUL-MT		KT-MUL-SC-KP/KT-MUL-SC		KT-SG-MT-KP/KT-SG-MT		KT-SG-SC-KP/KT-SG-SC	
<b>Typical Read Range</b> 13.56 MHz MIFARE Plus X, encrypted sector, ID-1 Credentials (Cards)		Up to 1.2"				Up to 1.6"				
Typical Read Range 125 kHz ioProx ID-1 Credentials (Cards)		Up to	1.8"	-		Up to 2.0"		-		
Input Voltage		5VDC to 15VDC								
Power Consumption @ 12V		175mA	70mA	160mA	70mA	175mA	70mA	160mA	70mA	
Operating Humidity		0 to 95% non-condensing								
Operating Temperature		-40C to +70C (-40F to +158F)								
Environmental Rating		IP57								
Dimensions (H.W.D.) mm		115.8 x 44.6 x 24.7				115.8 x 71.5 x 24.7				
Dimensions (H.W.D.) in		4.56 x 1.75 x 0.97				4.56 x 2.81 x 0.97				
Weight		108g (0.24lb)	106g (0.23lb)	105g (0.23lb)	103g (0.23lb)	173g (0.38lb)	166g (0.37lb)	170g (0.37lb)	161g (0.35lb)	
Housing		Polycarbonate, Smoked Black								
RF Technologies		13.56 MHz and 125 kHz		13.56 MHz		13.56 MHz and 125 kHz		13.56 MHz		
Capacitive Touch Keypad wit	h backlighting	х		x		х		х		
LED Indicator		Multi-Color Bar: Red, Green, Yellow, Blue, Configurable								
Sounder		Integrated								
Tamper		Optical								
Inputs		Wiegand or RS-485: LED and Buzzer RS-485: 2 to 4 (configurable, using double device)								
Output		RS-485: 1 supervised, open-drain, up to 750mA								
Wiring Terminal		6 Screwless Poles								
Mounting		Mullion North American Single Gang								
Communication		RS-485 Bus AES-128 Encrypted or Wiegand								
Viegand Formats		26-bit / 34-bit / Kantech XSF / Kantech SSF								
Supported Credentials	13.56MHz	MIFARE Plus X and ISO/IEC 14443A								
	125kHz	ioProx		-		ioProx		-		
Cabling		3 Twisted pairs AWG 22 unshielded, up to 250' (75m)								
Security		Supports AES-128 Encryption between the Credential and the Reader as well as between the Reader and the Access Controller								
Firmware		Fully upgradable via RS-485								
Certifications		FCC, CE, UL, NIST, FIPS 197, RoHS, WEEE								
Flammability Rating		UL94 V-0								
Warranty		Limited Lifetime								

Compatible Access Control Units:	
Wiegand XSF	KT-300, KT-400 and KT-1
Wiegand SSF	KT-300, KT-400 and KT-1
RS485	KT-400 and KT-1

#### **Mounting Instructions**

Follow these instructions to install the reader:

- Pull the controller's wires in the wall through the hole in the mounting bracket.
- Affix the mounting plate to the wall using two screws (#6-32)
- If a higher level of tamper detection is desired, cut the plastic tamper tab from the mounting bracket.
- Secure the white reflector tab back into the mounting plate hole with a screw. (#6-32).
- After having wired the reader as per the drawings below, insert the top hook of the cover into the mounting plate tab and complete the procedure by pressing the bottom part into place until the bottom hook is in place.
- If a more secure installation is desired, install the provided screw at the bottom of the reader. You may also use the provided security screw instead for an even safer installation. (#6-32)





## Models: KT-MUL-SC and KT-MUL-SC-KP FCC ID: V8515KTMULSCKP IC: 5690B-KTMULSCKP

## Models: KT-SG-SC and KT-SG-SC-KP FCC ID: V8515KTSGSCKP IC: 5690B-KTSGSCKP

#### FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by KANTECH could void your authority to use this equipment.

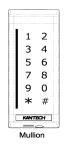
This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio 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:

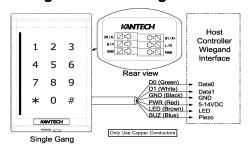
- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- -Move the alarm control away from the receiver
- -Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4. INDUSTRY CANADA STATEMENT CAN-ICES-3(B)/NMB-3(B)

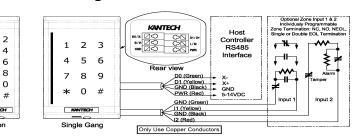
# ₩ (A) DP 6

#### Wiring Chart via Wiegand





### Wiring Chart via RS485



Destructive Attack: Level I (no attack test)

Line Security: Level III (AES128 line security)

Endurance: Level IV (100,000 cycles)

Standby Power: Level I (no integral standby power)

Installation location and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70. There is no maintenance required and there are no replacement parts required for these devices This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two condition

5 6 7 8 7 9 \* # Mullion

3 4

Wiring Chart via RS485 (Lock Wiring) 1 2 3 RS485 Door Leaking Device 12 VOC 750 mA Max 5 6 8 9 0 # External Power
Supply - Insure it can Provide 12VDC
up to 750mA

GND
12VDC Single Gang

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with Part 15 Class B of the FCC rules. 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. This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations CAN ICES-3 (B) / NMB-3 (B).

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