Ins-138-US PROXIMITY vandal proof reader

Paxton Access

Technical Support

☏ +44(0)845 8381716   ✉ support@paxton-access.co.uk

Technical help is available Monday - Friday from **07:00 - 19:00**.
Other documentation on Net2 can be found on our web site - http://www.paxton-access.co.uk/

Suitability

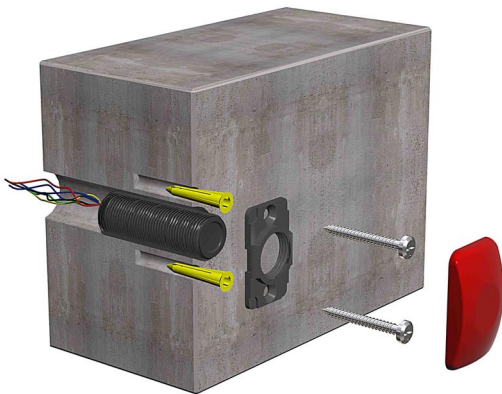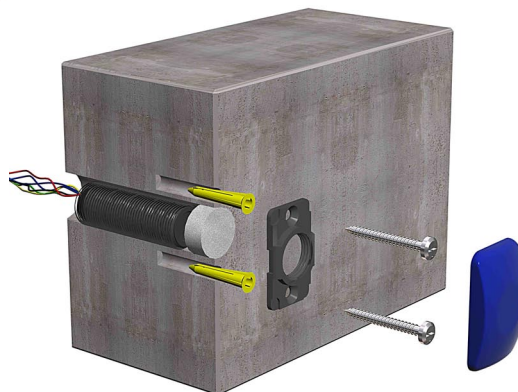|			
Security sensitive doors	✓	Wet environments	✓
Mounted on metal surface	✗	Readers mounted together	**500mm** between readers

Fitting
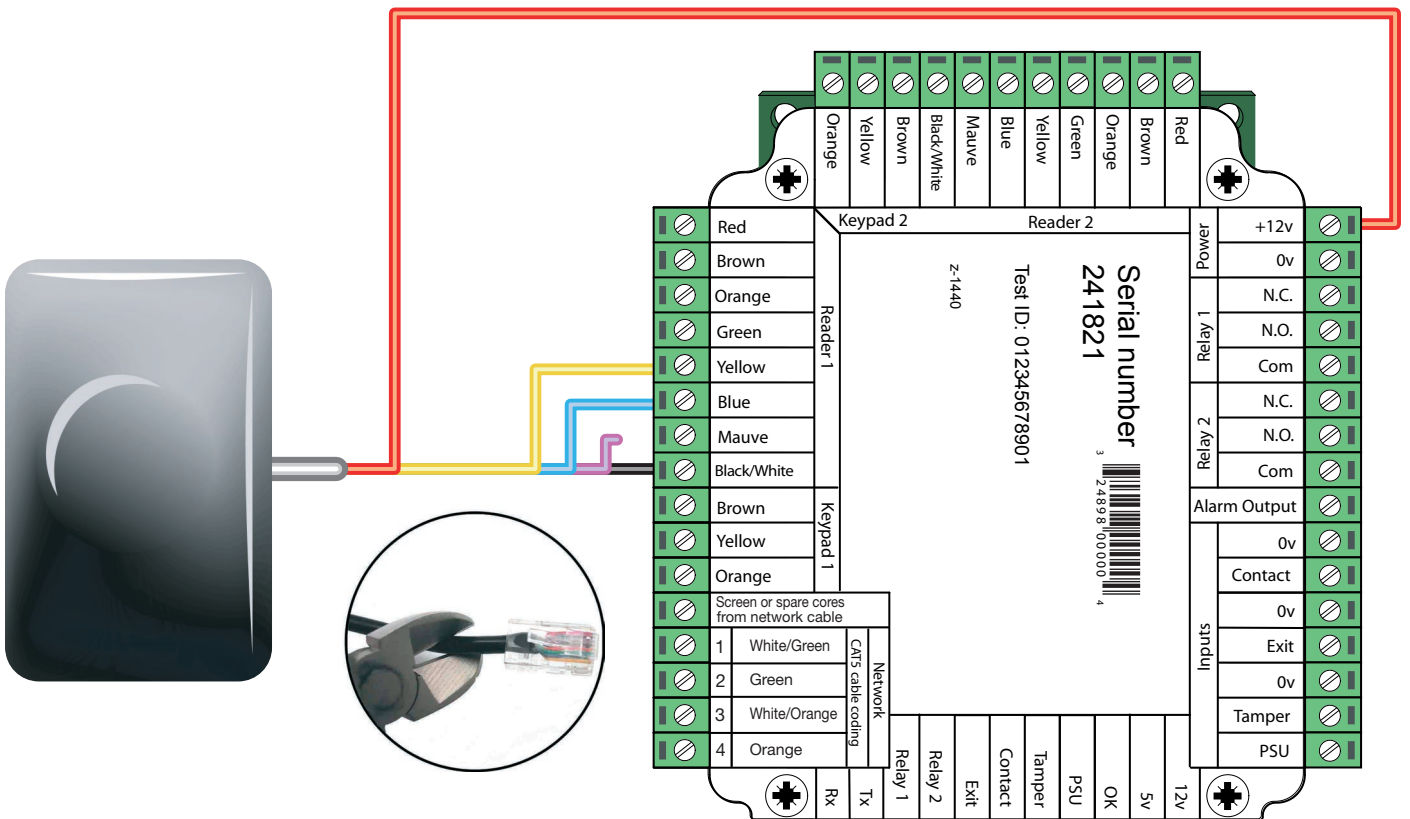

Open hole - medium vandal resistance

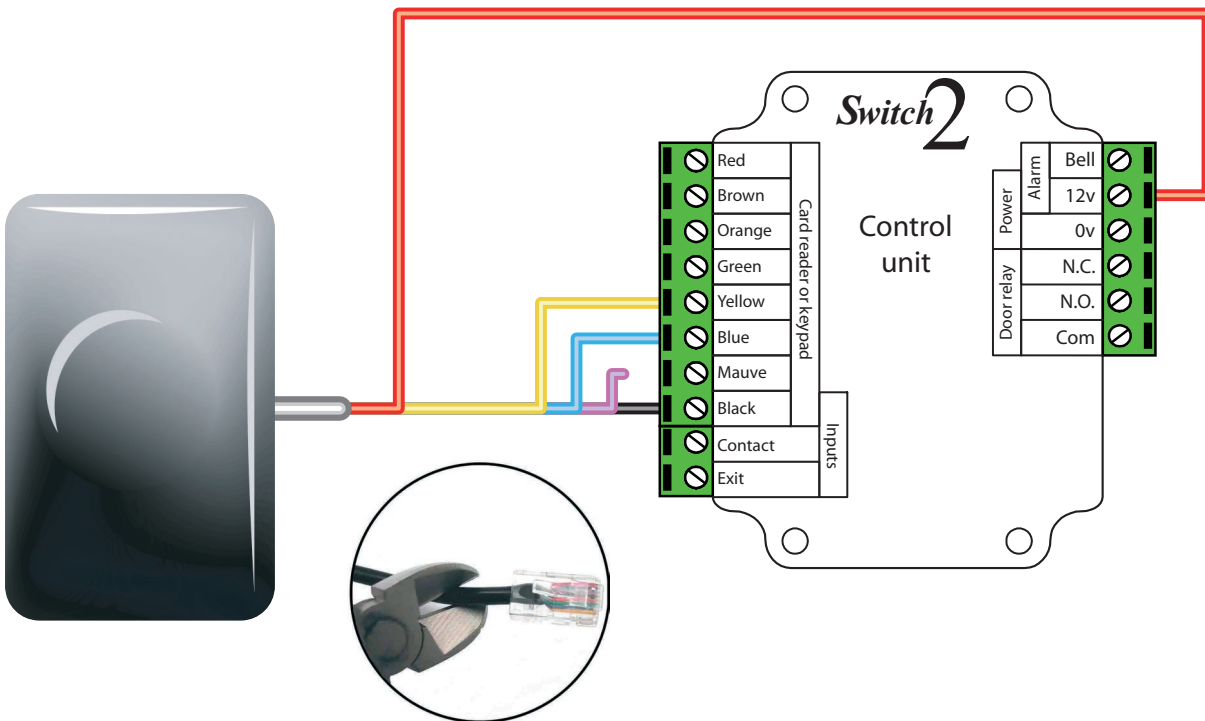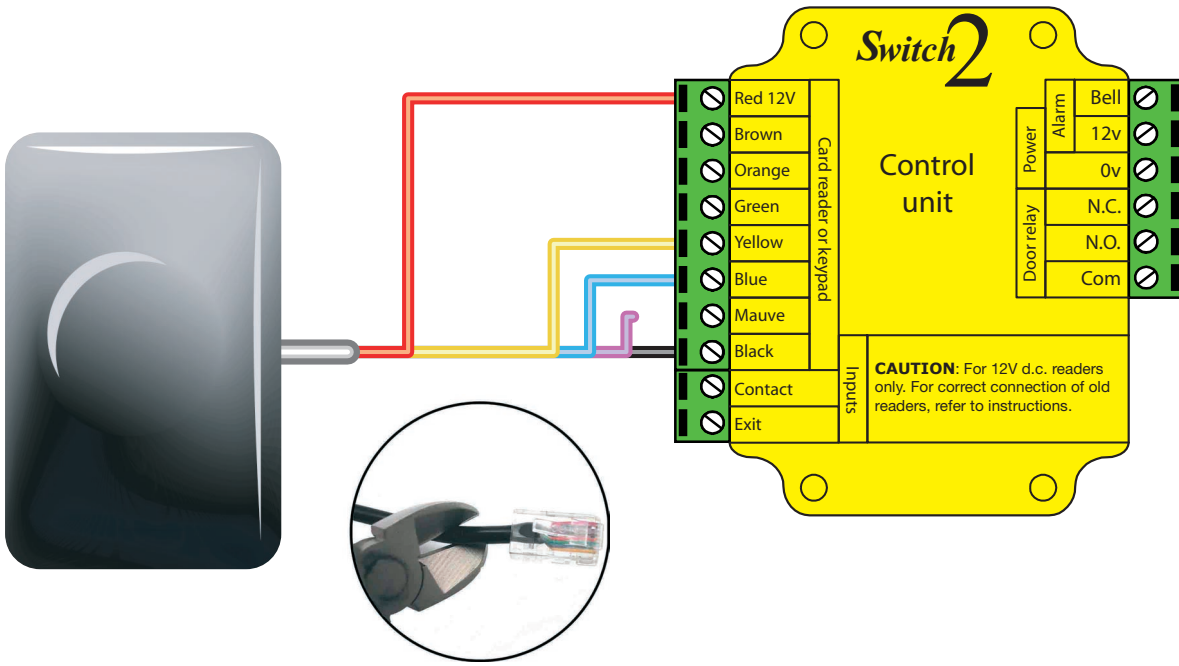Cement plug - high vandal resistance

Blind hole - very high vandal resistance

Wiring

Diagram 1 labels:

Keypad 2 — Reader 2 — Power — Relay 1 — Relay 2 — Alarm Output — Inputs

Serial number 241821
Test ID: 0123456789 01
z-1440

CAUTION: for 12v d.c. readers only. For correct connection of old 5v reader's refer to instructions.

Reader 1 terminals:
- Red 12v dc
- Brown
- Orange
- Green
- Yellow
- Blue
- Mauve
- Black/White

Keypad 1:
- Brown
- Yellow
- Orange

Screen or spare cores from network cable

Network CAT5 cable coding:
- 1 White/Green
- 2 Green
- 3 White/Orange
- 4 Orange

Top terminals: Orange, Yellow, Brown, Black/White, Mauve, Blue, Yellow, Green, Orange, Brown, Red

Right terminals:
- +12v (Power)
- 0v
- N.C. (Relay 1)
- N.O.
- Com
- N.C. (Relay 2)
- N.O.
- Com
- Alarm Output
- 0v
- Contact
- 0v
- Exit
- 0v
- Tamper
- PSU

Bottom terminals: Rx, Tx, Relay 1, Relay 2, Exit, Contact, Tamper, PSU, OK, 5v, 12v

Diagram 2 labels: (same layout)

Keypad 2 — Reader 2

Serial number 241821
Test ID: 0123456789 01
z-1440

Reader 1:
- Red
- Brown
- Orange
- Green
- Yellow
- Blue
- Mauve
- Black/White

Keypad 1:
- Brown
- Yellow
- Orange

Screen or spare cores from network cable

Network CAT5 cable coding:
- 1 White/Green
- 2 Green
- 3 White/Orange
- 4 Orange

Cable extensions

Readers can be extended using Belden CR9540 10-core overall screened cable. The maximum cable length between reader and control unit is **100m**.

Diagram 1

Switch2 Control unit

Card reader or keypad:
- Red 12V
- Brown
- Orange
- Green
- Yellow
- Blue
- Mauve
- Black

Inputs:
- Contact
- Exit

Power / Alarm:
- Bell
- 12v
- 0v

Door relay:
- N.C.
- N.O.
- Com

CAUTION: For 12V d.c. readers only. For correct connection of old readers, refer to instructions.

Diagram 2

Switch2 Control unit

Card reader or keypad:
- Red
- Brown
- Orange
- Green
- Yellow
- Blue
- Mauve
- Black

Inputs:
- Contact
- Exit

Power / Alarm:
- Bell
- 12v
- 0v

Door relay:
- N.C.
- N.O.
- Com

Specifications				
Vandal proof reader - tube	19 dia	60 d		mm
Vandal proof reader - cover cap	48 h	30 w		mm
Panel mounting studs - position (in a square around the center of the reader)	49			mm
Electrical				
Operating voltage	9	12	14	V d.c.
Current consumption	50 min	120 max		mA
Carrier frequency		125		kHz
Clock & data bit period		600		us
Product specific information				
Water resistance		IPX7		
Vandal resistance		Very high		
Max read range: cards			100	mm
Max read range: keyfobs			55	mm
Security		High		
Width		30		mm
Height		48		mm
Depth		9		mm
Diameter		19		mm
Length		59		mm
Cable type - for extension		Belden 8 core CR9538		
Max cable extension from control unit		100		m
Cable length		5		m
Token reads		Not limited		

FCC Compliance
This device complies with Part 15 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.