



**KNIGHT FIRE & SECURITY PRODUCTS LTD**  
 Unit 84, Seawall Road Industrial Estate  
 Tremorfa, Cardiff CF24 5TH  
 Tel: 029 2048 8129  
 Fax: 029 2048 9132  
<mailto:info@knightfireandsecurity.com>  
<http://www.knightfireandsecurity.com/>

**Angled Magnetic Contact with Selectable Resistors**

**Part Code: YH10A**

Security Grade 3 Environmental Class 3

Manufactured to EN50131-2-6



**Description:-**

The YH10A is a fully sealed angled contact with integral magnetic interference tamper switch detection. It meets all of the necessary requirements for magnetic contacts permitting it to be used within Grade 3 installations. The contact has installer selectable End of Line (EOL) and alarm contact bypass resistors, and benefits from the option of a second device connected in series..

**Installation:-**

Fix the backplate to the mounting surfaces using the fixing holes provided. Feed the cable from the contact, and wire into the control panel using a junction box as appropriate. Select the appropriate wiring format and/or resistor values (see tables). Ensure that unused wires and any trimmed wires cannot short out to any other connections. Only two connections are made to the control panel alarm circuit and this provides both the alarm and tamper information. The following table gives approximate sensing distances.

**Wiring:-**

The YH10A is only suitable for fully supervised (EOL) formats. Use the appropriate wire colour to achieve the necessary end of line and alarm bypass resistor values for the control panel (See Following Tables).

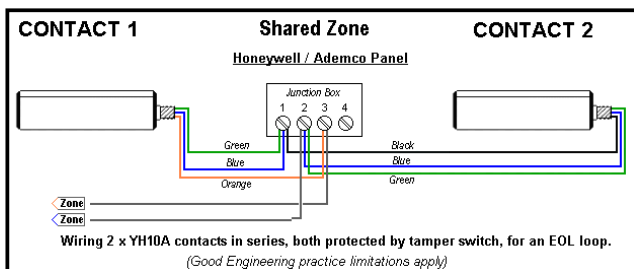
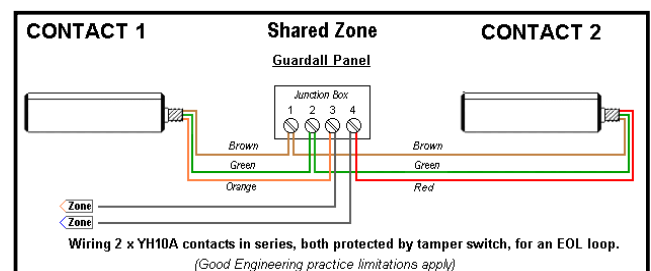
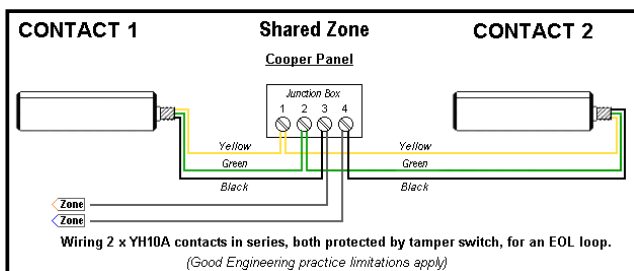
Mounting Surface	Make Distance	Break Distance
Non-magnetic	35mm	45mm

Control Panel	Value		Single Contact	
	EOL	Alarm	EOL	Alarm
	Honeywell Ademco, Galaxy	1k	1k	Black
Europlex	2k2	2k2	Red/ Yellow	Green/ Brown
Castle, Menvier Pyronix, Scantronic Texcom	2k2	4k7	Red/ Yellow	Green/ White
Aritech	4k7	4k7	Yellow	Green/ White
Gardtec	4k7	6k8	Yellow	Green
Guardall	8k2	8k2	Red	Red <i>(Note: Connect Blue &amp; White)</i>

Value	Shared Zone Contact Table				
	Contact 1		Contact 2		
	EOL	Alarm	EOL	Alarm	
1k	1k	Orange	Green/ Blue	Black	Green/ Blue
2k2	2k2	Orange	Green/ Brown	Red/ Yellow	Green/ Brown
2k2	4k7	Orange	Red/ Yellow	Red/ Yellow	Green/ White
4k7	4k7	Orange	Green/ White	Yellow	Green/ White
4k7	6k8	Orange	Green	Yellow	Green/ White
4k1	8k6	Orange	Brown/ Green	Brown/ Green	Red

Resistance Values			
Contact 1 Contact 2 (Closed)	Contact 1 (Open)	Contact 2 (Open)	Contact 1 Contact 2 (Open)
1k	2k	2k	3k
2k2	4k4	4k4	6k6
2k2	6k9	6k9	11k6
4k7	9k4	9k4	14k1
4k7	11k5	11k5	18k3
4k1	7k5	7k5	8k6

**Wiring Examples:**



**NOTE :** New panels are being introduced regularly. If using on a shared zone, where possible please disable masking and check fault/tamper values against the table to ensure that the operation of both contacts on the zone doesn't lead to a fault/tamper on the panel.

**Check that this is acceptable for your panel**