



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>

G3 Flush Potted Contact, Selectable Resistors & Large o.g.



Part Code: YA90
 Security Grade 3 Environmental Class 3
 Manufactured to BS EN50131-2-6

Description

The YA90 is a universal fully sealed Flush Contact with magnetic shielding. It meets all 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 fascia plate to the prepared mounting surfaces using the fixing holes provided. Feed the cable from the contact, and wire into the appropriate terminal blocks. Select the appropriate wiring format and 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.

Mounting Surface	Make Distance	Break Distance
Non-magnetic	20mm	22mm

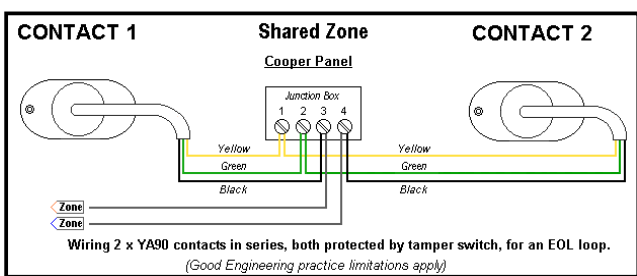
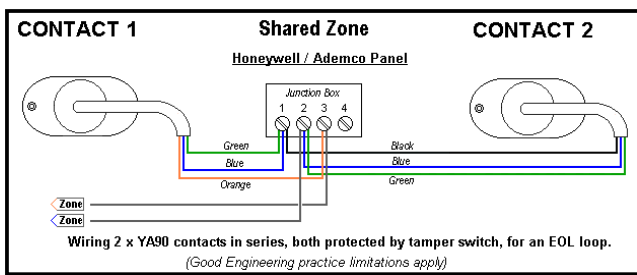
Wiring:-

The YA90 is only suitable for fully supervised (EOL) formats. Use the appropriate wire colour/s to achieve the necessary end of line and alarm bypass resistor values for the control panel (See Following Tables).

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

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
2k2	4k7	Black	Yellow/ Green	Black	Yellow/ Green
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
2k	6k	6k	7k6
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.

Note: Mounting on metal surfaces reduces the functionality, according to the metal type and thickness.

Check that this is acceptable for your panel.

