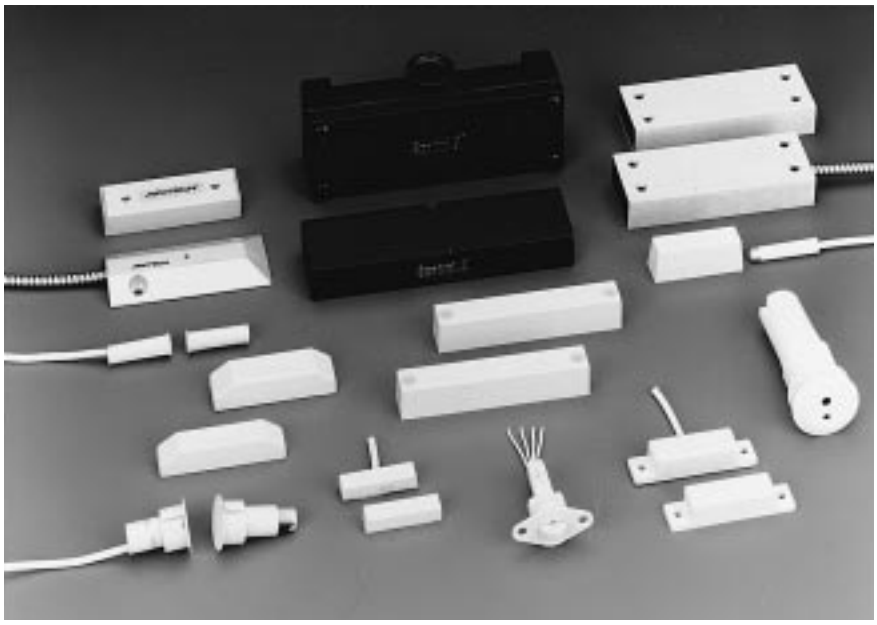
ARITECH

DC Series Magnetic contacts

- **Comprehensive product range**
- **Superior quality**
- **Easy installation**
- **Standard 2 m wire length**
- **Tamper loop provided**
- **Built-in resistors available to special order**



Durability and dependability

The DC series range of high performance magnetic contacts have been designed to facilitate installation and ensure durability and dependability. Most are conservatively rated at 10,000,000 cycles, guaranteeing a long life. Every reed connection is hand soldered and each magnetic contact is tested before they leave the factory, 100 % of the time.

High Quality components and materials

Reed legs are plated with rhodium or ruthenium, and hermetically sealed in dry nitrogen. This offers superior protection against sticking and provides a moisture free environment therefore preventing corrosion.

All reed switches are encapsulated in an exclusive polyurethane potting compound which provides the critical balance between flexibili-ty and maximum holding power. In the event that supporting material expands or contracts due to increased humidity or when drying out, the compound allows the contact housing to flex and bend and therefore prevents the reed from cracking. Moreover, it remains resistant to increases in temperatures, whereas some compounds can soften, causing reed migration which results in false alarms because the reed is pulled away from the magnet.

The Complete Range

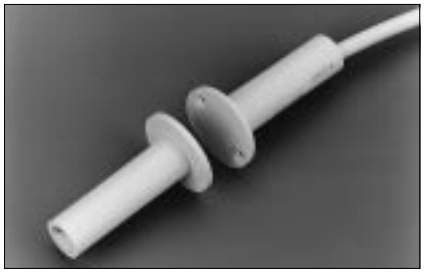
We can offer you the right product and accessory for every application. Choose from our comprehensive range of flush, surface, overhead or floor mount contacts and you will be fully equipped to meet today's exacting requirements for residential, commercial and industrial applications.

High Security

For high security installations, we provide a selection of biased contacts. Here, a small magnet (bias magnet) is attached to the reed switch which influences the reed to change state. The contact is now balanced, but only so long as the actuator magne tremains positioned in a specific zone. If the actuator magnet is moved closer or farther away from the reed or if an attempt is made to defeat the contact with an external magnet, the reed will change state and go into alarm. For extra high security, the triple biased DC 111 contact is available, which incorporates a pry-off tamper.

DC 105 Combination contact flush-surface mounting

Operating gap (max)	12mm
Connections	4 wires; 2 m
Contact type	NC
Dimensions	Contact : Ø 6 x 28 mm (L)
	Magnet : Ø 6 x 31 mm (L)
	Housing : 50 x 9 x 9 mm (L x W x H)
Colour	Beige (Add "B" for brown)

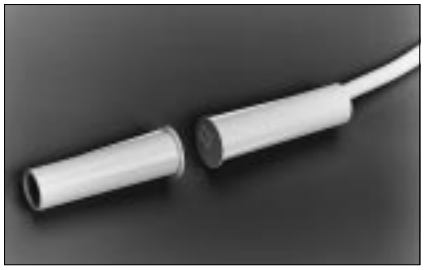


DC 106 Standard gap with flange

Operating gap (max)	12mm
Connections	4 wires; 2 m
Contact type	NC
Dimensions	Ø 19 ; 33 x 9.5 mm (L x H)
Colour	Beige (Add "B" for brown)
Mounting screws	Supplied

DC 120 Stubby press-fit, wide gap

Operating gap (max)	18mm
Connections	4 wires; 2 m
Contact type	NC
Dimensions	Contact : Ø 9 x 19 mm (L)
	Magnet : Ø 9 x 19 mm (L)
Colour	Beige (Add "B" for brown)



DC 121/126/127/221 Press-fit

	DC 121	DC 221	DC 127	DC 126
Operating gap (max)	12mm	12mm	31mm	31mm
Connections	4 wires; 2 m	5 wires; 2 m	4 wires; 2 m	5 wires;2m
Contact type	NC	CO	NC	CO
Dimensions	Ø 11 mm x 33 mm (L)			
Colour	Beige (Add "B" for brown)			

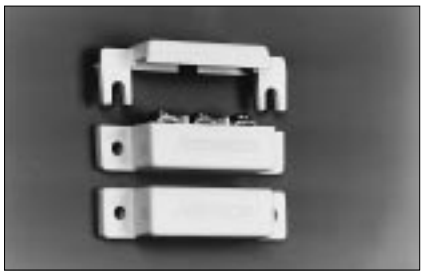
DC 107/124/125 Designed for steel doors

	DC 107	DC 124	DC 125
			Biased for high security
Operating gap (max)	9mm	9mm	12mm
Connections	4 wires; 2 m	5 wires; 2 m	5 wires; 2 m
Contact type	NC	CO	CO
Dimensions	Ø22 x 39 mm (L)	Ø22 x 39 mm (L)	Ø26 x 39 mm (L)
Colour	Beige (Add "B" for brown)		

Surface mount

DC 101/103 Screw mount with wires

	DC 101	DC 103
		Biased for high security
Operating gap (max)	15mm	15 mm (min); 31 mm (max)
Connections	4 wires; 2 m	4 wires; 2 m
Contact type	NC	NC
Dimensions (L x H x D)	50 x 9 x 9 mm	50 x 9 x 9 mm
Colour	Beige (Add "B" for brown)	Beige (Add "B" for brown)



DC 102/123/137/130/104 Screw terminal

	DC 102	DC 123	DC 137	DC 130	DC 104
Operating gap (max)	18mm	18mm	37mm	50mm	9 mm (min)
					31 mm (max)
Connections			Screw		
Contact type	NC	CO	NC	NC	CO
Dimensions	63 x 12 x 19 mm				
Colour	Beige (Add "B" for brown)				

DC 202/134/203 Designer style with screw terminals

	DC 202	DC 134	DC 203
Operating gap (max)	18 mm	37 mm	37 mm
Connections		Screw	
Contact type	NC	NC	CO
Dimensions		65 x 13 x 17 mm (L x W x H)	
Colour		Beige	

DC 129 Screw mount with wires

Operating gap (max)	25 mm
Connections	4 wires; 2 m
Contact type	NC
Dimensions	65 x 12 x 14 mm (L x W x H)
Colour	Beige

DC 141 Miniature self adhesive

Operating gap (max)	25 mm
Connections	4 wires; 2 m
Contact type	NC
Dimensions	38 x 6 x 9 mm (L x W x H)
Colour	Beige

DC 116/142/143 Industrial screw terminal

	DC 116	DC 142	DC 143
			Biased for high security
Operating gap (max)	31 mm	75 mm	9 mm (min); 31 mm (max)
Connections		Screw	
Contact type	NC	NC	CO
Dimensions		99 x 17 x 15 mm (L x W x H)	
Colour	Beige (Add "B" for brown)	Beige	Beige

Overhead doors & Floor mount

DC 115/118 Aluminium housing, wide gap

	DC 115	DC 118
	Biased for higher security	
Operating gap	9 mm (min); 62 mm (max)	75 mm (max)
Connections	5 wires; 2 m (armoured cable)	4 wires; 2 m (armoured cable)
Contact type	CO	NC
Dimensions	76 x 12 x 25 mm (L x W x H)	
Housing	Anodized aluminium finish	

DC 111 High security anodized alloy housing

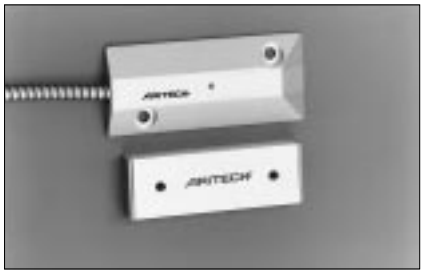
	Triple biased for higher security, with pry-off tamper
Operating gap	5 mm (min); 15 mm (max)
Connections	6 wires; 2 m (armoured cable)
Contact type	CO
Dimensions	88 x 19 x 38 mm (L x H x W)
Housing	Anodised alloy

DC 108/140 Floor mounting contact

	DC 108	DC 140	DC 409
Operating gap (max)		75 mm	
Connections	4 wires;		5 wires;
		2 m (armoured cable)	
Contact type	NC	NC	CO
Dimensions		Magnet : 89 x 39 x 39 mm (L x W x H)	
		Contact : 89 x 39 x 10 mm (L x W x H)	
Housing	Aluminium	Anticorrosion finish	Aluminium

DC 109/135 Floor mounting contact - Extra heavy duty

	DC 109	DC 135
Operating gap (max)	75 mm	
Connections	4 wires;	5 wires;
	2 m (armoured cable)	
Contact type	NC	CO
Dimensions	Magnet : 76 x 25 x 12 mm (L x W x H)	
	Contact : 89 x 39 x 10 mm (L x W x H)	
Housing	Aluminium Bar Stock	



DC 110 Floor mounting biased contact

Operating gap	19 mm (min); 63 mm (max)
Connections	5 wires; 2 m (armoured cable)
Contact type	CO
Dimensions	Magnet : 76 x 25 x 12 mm (L x W x H)
	Contact : 89 x 39 x 10 mm (L x W x H)
Housing	Aluminium

Special application

DC 112/113 Roller plunger

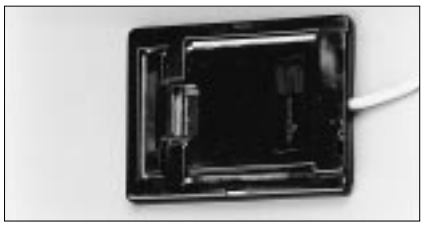
Mounting	DC 112 : Horizontal
	DC 113 : Vertical
Connections	4 wires; 2 m
Contact type	NC
Dimensions	Ø 19 x 38 mm (L)
Colour	Beige

DC 114 Adjustable pin plunger

Connections	4 wires; 2 m
Contact type	NC
Dimensions	Ø 12 x 40 cm (L)
Colour	Beige

DC 136/132 Explosion proof contact

	DC 136	DC 132
		Biased for higher security
Operating gap	25 mm	6 mm (min); 25 mm (max)
Connections	Screw	
Contact type	CO	
Dimensions	Magnet : 146 x 38 x 20 mm (L x W x H)	
	Contact : 146 x 38 x 50 mm (L x W x H)	
Housing	Heavy duty die-cast aluminium with brown textured paint	



DC 301 Money trap for cash register drawers

Removing all money from the tray, trips the contact

Contact type	CO
Dimensions	86 x 65 x 9 mm (L x W x H)
Colour	Black

Quick Reference Guide

		Gap (mm)	Contact type	Description
Flush				
Wire	DC 105	12	NC	Combination contact for flush /surface mounting
	DC 106	12	NC	With flanges for positive mounting
	DC 121	12	NC	Press Fit for easy installation; no screws or glue needed
	DC 221	12	CO	
	DC 127	31	NC	
	DC 126	31	CO	
	DC 120	18	NC	Stubby press-fit for thin-framed doors and windows
	DC 107	9	NC	Designed for steel doors
	DC 124	9	CO	
	DC 125	12	CO	*Biased for high security*
Surface				
Wire	DC 101	15	NC	Screw mount
	DC 103	15-31	NC	*Biased for high security*
	DC 129	25	NC	Screw mount
	DC 141	25	NC	Miniature self-adhesive
Screw	DC 102	18	NC	Standard screw terminal
	DC 123	18	CO	
	DC 137	37	NC	
	DC 130	50	NC	Extra Wide Gap
	DC 104	9-31	CO	*Biased for high security*
	DC 202	18	NC	Low profile design with angled clamping terminals
	DC 134	37	NC	for quick connection
	DC 203	37	CO	
	DC 116	31	NC	Designed for use on steel doors
	DC 142	75	NC	
	DC 143	9-31	CO	*Biased for high security*
Floor mount				
Wire	DC 108	75	NC	Aluminium housing
	DC 409	75	CO	
	DC 140	75	NC	*Special anti-corrosion finish*
	DC 109	75	NC	Extruded aluminium housing for extra heavy duty
	DC 135	75	CO	applications
	DC 110	19-63	CO	Biased for high security
Overhead				
Wire	DC 111	5-15	CO	Triple biased for extra high security, with pry-off tamper
	DC 118	75	NC	Aluminium housing and armoured cable
	DC 115	9-62	CO	*Biased for high security*
Specialty				
Screw	DC 136	25	CO	Explosion proof for hazardous locations
	DC 132	6-25	CO	*Biased for high security*
Wire	DC 112	Plunger	NC	Horizontal mounting
	DC 113	Plunger	NC	Vertical mounting
	DC 114	Plunger	NC	Adjustable pin
	DC 301	-	CO	Money trap for installation in cash register drawers
	DC 501	-	NC	Mini magnetic pull-apart cards to protect :
	DC 502	-	CO	TV's, stereos, office equipment, etc.
	DC 503	-	NC	Heavy duty magnetic pull-apart cards to protect :
	DC 504	-	CO	boats, barbecues, heavy equipment, etc.

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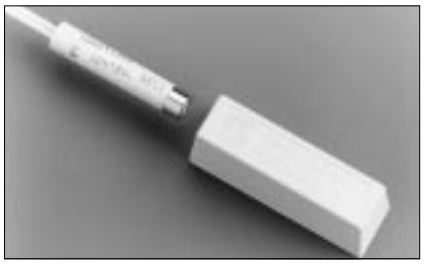
Special applications (continued)



DC 501/502 Mini-magnetic pull-apart cords

	DC 501	DC 502
Mounting	Surface	
Connections	4 wires, 2 m	5 wires; 2 m
Contact type	NC	CO
Dimensions	Magnet : 50 x 16 mm (L x W) Contact : 38 x 7 mm (L x W)	
Colour	Beige	

DC 503/504 Heavy duty magnetic pull-apart cords

	DC 503	DC 504
Mounting	Surface	
Connections	4 wires; 2 m (armoured cable)	5 wires; 2 m (armoured cable)
Contact type	NC	CO
Dimensions	Magnet : 57 x 31 mm (L x W) Contact : 87 x 11 mm (L x W)	
Colour	Grey	

Accessories

DC 191

18.8 mm drill for mounting DC 107/ 112/ 113/ 124/ 125

DC 192

Z-bracket for DC 102 /104 / 123 / 129 / 130 / 137

DC 193

L-bracket for DC 102 / 104 / 123 / 129 / 130 / 137

DC 1906 T

Spacer for DC 102, DC 123, DC 130, DC 137, DC 104, DC 129

DC 1901, DC 1901B

Empty shell for DC 101, DC 103, DC 105

DC 1906, DC 1906B

Spacer for DC 101, DC 103, DC 105

Technical data

	Normally closed (NC)	Changeover (CO)
Contact type	Contact closed when magnet is in close proximity	Contact has common, open and closed side
Supply voltage (max)	100 V	30 V
Current consumption (max)	0.5 A	0.25 A
Operating temperature	Standard : -40º to +65º C Biased : -28º to +65º C	
Gap distances	Ratings are nominal and may vary ± 20 %. Ratings are distance for eed contact to "make". Break distance is approximately 1.1 to 1.5 times the "make" distance.	

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