Magnetic contacts



Product guide

Magnetic contacts

Carrier Fire & Security is a global leader in fire safety and security solutions that help protect people, property and assets the world over.

With Aritech as main brand, we offer a broad portfolio of innovative products and solutions to countless customers worldwide.

This document provides a comprehensive overview of our magnetic contacts with its features and the applications they are most suited for.

Magnetic contacts form a circuit between a door and doorframe or between a window and sill. Whenever an alarm system is activated and a window or door is opened, the circuit is broken, generating an alarm. Magnetic contacts are reliable sensing devices for sensing the opening and closing of doors and windows. They consist of two parts: reed switch and magnet.

Major benefits of Aritech magnetic contacts

• The strength and type of components of magnetic contacts determine the performance. Aritech magnetic contacts are used in different challenging environments reducing the risk on nuisance alarms.

• Aritech magnetic contacts are developed to last long and provide high reliability thanks to the specific reed switches that are used.

Since every installation has its own unique challenges, Aritech offers a wide array of magnetic contacts to address specific issues. Depending on type of installation, type of application, ...

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Surface mount

The reed switch and magnet are mounted parallel to each other using the surface-mount housing.

Surface-mounted contacts should be satisfactory for application in such areas as steel fire doors, file cabinets, etc. Customers should be reminded to allow sufficient safety factor in installation.

Rules of thumb

Gap on steel is approximately 1/2 the distance achieved in air. Space switch and magnet at approximately 25% of rated gap in air for safety factor. Use a spacer whenever it is practical. If only one spacer is used, mount it under the magnet. Application on steel does not "drain" magnet but it does reduce the magnetic field.

Contact types

- CO = Change Over
- NC = Normally Closed
- NO = Normally Open
- DPDT = Double Pole Double Throw
- SPDT = Single Pole Double Throw

Surface mount – Wired

	Code	Gap mm	Connection	Contact type	Colour	EN	Incert	VdS	NFA2P	дMI
	1085*-NCVB6	16	4x180cm	NC	White	EN2				
	DC101	15	4x200cm	NC	White	EN2				q I
	DC101B	15	4x200cm	NC	Mahogany	EN2				
3 3	DC101R4.7	15	4x250cm	NC	White	EN2				

	Code	Gap mm	Connection	Contact type	Colour	EN	Incert	VdS	NFA2P	дMI
3 3	DC101S60	15	4x600cm	NC	White	EN2				
9 9 9	DC103	15-31	4x200cm	NC	White	EN2				
T	DC141	25	4x200cm	NC	White					
ļ	DC148	12	4x200cm	NC	White	EN3		VdS C		
	DC148R4.7	12	4x200cm	NC	White	EN3		VdS C		
ļ	DC148S60	12	4x600cm	NC	White	EN3		VdS C		
N	DC418	5-12	9x400cm	NC	White	EN4				
	IM1440FENF02BC	15	4x200cm	NC	White					
	IM1440FENF05BC	15	4x500cm	NC	White					
	IM1640PAG	35	4x60cm	NC	White					
	IM1640PAG01JB	35	4x100cm	NC	White					
	IM1640PSG	35	4x85	NC	White					

	Code	Gap mm	Connection	Contact type	Colour	N N N	Incert	VdS	NFA2P	фМI
0	IM1820TINF*8	14	2x85cm	NC	White					
	IM1920TINF*8	21	2x85cm	NC	White					
	MM108	50	4X50cm	NC	aLU					
	MM115	15	4x200cm	NC	White					
	MM440	15	4X85cm	NC	White					
	M1640PAG-G3 (Armored cable)	15	4x100cm	NC	White	EN3				
	M1640PSG-G3	15	4X100cm	NC	White	EN3				
22	1044TW-N	76	2x screw term.	SPDT	White					
	1084TW-G	51	3x screw term.	SPDT	Grey					
	1085T-N-3K3	19	2x screw term.	NC	White					
	1087T-N	19	3x screw term.	SPDT	White					

	Code	Gap mm	Connection	Contact type	Colour	EN	Incert	VdS	NFA2P	дMI
	DC102	18	2x screw term.	NC	White	EN1				
	DC102B	18	2x screw term.	NC	Mahogany					
	DC102R4.7	18	2x screw term.	NC	White					
	DC104	9–31	3x screw term.	СО	White					
	DC116	31	3x screw term.	NC	White					
	DC123	18	3x screw term.	CO	White					
	DC134	37	3x screw term.	NC	White					
	DC137	37	3x screw term.	NC	White					
	DC142	75	3x screw term.	NC	White					
	DC143	9-31	3x screw term.	CO	White					
Ú.	IM9700FENFBB	25	6x screw term.	NC	White					

	Code	Gap mm	Connection	Contact type	Colour	Z	Incert	VdS	NFA2P	ζΜΙ
	MM101	14	5x screw term.	NC	White					
	MM102	20	5x screw term.	NC	White					
	MM102B	20	5x screw term.	NC	Mahogany					
• •	MM201	25	6x screw term.	NC	White					
	IM9700FENFBB- G3	20	6x screw term.	NC	White					
	MM201-G3	20	6x screw term.	NC	White					

Recessed mount

Recessed magnetic door switches are made with the same magnetic reed switches used for surface-mount alarm contacts. Instead of a rectangular housing, recessed alarm contacts have a cylindrical case. This makes them easy to install, just by drilling a hole.

Recessed mount – Wired

	Code	Gap mm	Connection	Contact type	Colour	Diameter	EN	Incert	VdS	NFA2P	QМІ
	1074D-N	13	2x30cm	DPDT	White	9					
A PAR	1076D-G	9	2x30cm	DPDT	Grey	25,4					
	1076D-N	9	2x30cm	DPDT	White	25,4					
	1078-G	13	2x30cm	NC	Grey	25,4					
	1078-N	13	2x30cm	NC	White	25,4					
	1078W-N	25	2x30cm	NC	White	25,4					
T	DC106	12	4x200cm	NC	White	9,5	EN2				qI
ł	DC106R4.7	12	4x200cm	NC	White	9,5	EN2				
	DC106S9	12	4x300cm	NC	White	9,5					
A II	DC107	9	4x200cm	NC	White	19	EN2				
a state	DC1076	9	4x200cm	NC	White	19	EN2				

Recessed mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter	EN	Incert	VdS	NFA2P	дМI
A I I	DC1076-6M	9	4x600cm	NC	White	19					
	DC107R4.7	9	4x250cm	NC	White	19	EN2				
	DC107S60	9	4x600cm	NC	White	19	EN2				
N.	DC120	18	4x250cm	NC	White	9,5	EN2				
N.	DC120S60	18	4x600cm	NC	White	9,5	EN2				
ł	DC121	12	4x200cm	NC	White	9,5					
Ì	DC121S60	12	4x600cm	NC	White	9,5					
a state	DC124	9	5x200cm	СО	White	19	EN2				
	DC127	31	4x200cm	NC	White	9,5					
	DC128	15	4x200cm	NC	White	8	EN3		VdS C		
	DC128R4.7	15	4x200cm	NC	White	8	EN3		VdS C		

Recessed mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter	EN	Incert	VdS	NFA2P	дMI
	DC128S60	15	4x600cm	NC	White	8	EN3		vds ^C		
	DC138	12	4x200cm	NC	White	19	EN3		vds ^C		
	DC138R4.7	12	4x200cm	NC	White	19	EN3		VdS C		
	DC138S60	12	4x600cm	NC	White	19	EN3		VdS ^C		
Ò`	DC555	26	4x200cm	NC	White	64					
	DC888	18	4x200cm	NC	White	19,1					
A C	IM1340FENF0 2BC	16	4x200cm	NC	White	8					
	IM1340TINF0 2BC	16	4x200cm	NC	White	8					
	IM1340TINF0 5BC	16	4x500cm	NC	White	8					
T	MM110	15	4x200cm	NC	White	8					
	MM340	16	4x100cm	NC	White	8					

Code	Gap mm	Connection	Contact type	Colour	Diameter	L L L	Incert	VdS	NFA2P	дмі
 R1125-N	13	2x30cm	NC	White	9					
 R1125W-N	22	2x30cm	NC	White	9					
MM340-G3	17	4x200cm	NC	White	8					

Recessed mount – Wired (ctd.)

Recessed mount – Terminal

	Code	Gap mm	Connection	Contact type	Colour	Diameter	E	Incert	SbV	NFA2P	дMI
ALLIN	1078CT-N	9	2x screw term.	NC	White	19					
Series B	R1125T-N	13	2x screw term.	NC	White	9					
Ø	R1125TW-N	22	2x screw term.	NC	White	9					

Overhead contacts

For rigorous environments of commercial and industrial applications overhead contacts are often used. The low profile housing of the floor mount unit, containing reed switches, are encased in a specific potting material, preventing damage due to moisture or humidity. Heavy duty versions are also available for heavy doors, shutters and gates.

Overhead contacts – Wired

	Code	Gap mm	Connection	Contact type	Colour	N E N	Incert	VdS	NFA2P	рм
	2202AU*-LCXB	76	4x90cm	NC	Alu					
e le	DC108	75	4x200cm	NC	Alu	EN2		VdS B		qI
	DC108R4.7	75	4x200cm	NC	Alu	EN2				
-	DC109	75	4x200cm	NC	Alu					
	DC110	19-63	5x200cm	CO	Alu					
	DC111	5–15	6x200cm	CO	Alu	EN3		VdS C		qII
	DC115	9-62	5x200cm	СО	Alu	EN2				qI
	DC118	75	4x200cm	NC	Alu	EN2		VdS B		
e i	DC140	75	4x200cm	NC	Alu					
	DC408	34	4x200cm	NC	Grey	EN3		VdS C		

	Code	Gap mm	Connection	Contact type	Colour		Incert	VdS	NFA2P	дмі
	DC408R4.7	34	4x200cm	NC	Grey	EN3		vds C		
	DC428	10-20	9x400	NC	Grey	EN4				
	IM1740FENF*81	54	4x60	NC	Alu					
	MM106	50	4x45	NC	Alu					
E	MM740	54	4x60	NC	Alu					
	SC2202SAAAB01	54	4x60	NC	Alu					
	IM1740FENF*81 -G3	25	4x130	NC	Alu					
	MM740-G3	25	4x130	NC	Alu					

Overhead contacts – Wired (ctd.)

Special applications

Special applications – Wired

	Code	Gap mm	Connection	Contact type	Colour	Diameter	N M	Incert	SbV	NFA2P	δMI
	3012-N	N/A	2x30	NC	White			INCERT			
II.	DC105	12	4x250	NC	White	6,4	EN2				
II.	DC105S8	12	4x250	NC	White	6,4					
	DC113	N/A	4x200	NC	White			INCERT			
	DC114	N/A	4x200	NC	White			INCERT			
	DC301	N/A	3 x180	СО	Black						
	DC501	N/A	4x200	NC	White			NCERT			
SPE	EMK46ATLSA	22	4x200	NC	White	8			VdS B		
NP2	EMK46ATLSA4	22	4x400	NC	White	8			VdS ^B		
	EMK46ATLSA4B	22	4x400	NC	Mahogany	8			VdS ^B		

	Code	Gap mm	Connection	Contact type	Colour	Diameter	Z	Incert	VdS	NFA2P	дMI
NP2	EMK46ATLSA6	22	4x600	NC	White	8			VdS B		
	EMK48ATLSA6	22	4x600	NC	White	8			vds ^B		

Special applications – Wired (ctd.)

Learn more



About Aritech

Aritech provides leading security and life-safety solutions for both commercial and residential applications covering intrusion, video, transmission and access. Offering some of the most-trusted product names in the industry, and backed by ongoing partner services and support, Aritech helps customers secure and protect what matters most. Aritech is a part of Carrier Global Corporation, a leading global provider of healthy, safe and sustainable building and cold chain solutions. For more information, visit **aritech.com** or follow us on **LinkedIn @Aritech.**

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