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. Through a broad portfolio of innovative products, we offer security 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	R	Incert	SbV	NFA2P	QMI
1085*-NCVB6	16	4x180	NC	White	EN2				
DC101	15	4x200	NC	White	EN2				۲. ۱
DC101B	15	4x200	NC	Brown	EN2				
DC101-D	15	4x200	NC	White			vds _B		
DC101R4.7	15	4x250	NC	White	EN2				

Surface mount - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	EN	Incert	SbV	NFA2P	IMQ
R	DC101S60	15	4x600	NC	White	EN2	NCERT			
	DC103	15-31	4x200	NC	White	EN2				
T	DC141	25	4x200	NC	White		NCERT			
11	DC148	12	4x200	NC	White	EN3		VdS _C		
11	DC148R4.7	12	4x200	NC	White	EN3		VdS C		
11	DC148S60	12	4x600	NC	White	EN3		VdS _C		
11	DC418	5-12	9x400	NC	White	EN4				
1	IM1440FENF01BE2	11	4x100	NC	White					
11	IM1440FENF02BC	11	4x200	NC	White					
11	IM1440FENF05BC	11	4x500	NC	White					
12	IM1640PAG	25	4x60	NC	White					
P.	IM1640PAG01JB	25	4x100	NC	White					

Surface mount - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	N	Incert	SbV	NFA2P	QMI
11	IM1640PAGELK	25	4x60	NC	White					
10	IM1640PSG	25	4x85	NC	White					
ł	IM1820TINF*8	14	2x85	NC	White					
-1	IM1920TINF*8	21	2x85	NC	White					
	MM108	50	4x50	NC	Alu					
1.	MM115	15	4x200	NC	White					
	MM440	11	4x85	NC	White					
11	IM1440FENF02BC- G3	19	4x200	NC	White					
11	MM440-G3	19	4x100	NC	White					
	M1640PAG-G3 (Armored cable)	15	4x100	NC (single-pole NO contact)	White	EN3				
11	M1640PSG-G3	15	4x100	NC (single-pole NO contact)	White	EN3				

Surface mount - Terminal

	Code	Gap mm	Connection	Contact type	Colour	EN EN	Incert	VdS	NFA2P	IMQ
The second	1044TW-N	76	2x screw term.	SPDT	White					
[[]]]	1084TW-G	51	3x screw term.	SPDT	Grey					
(III)	1085T-N-3K3	19	2x screw term.	NC	White		N			
AL	1087T-N	19	3x screw term.	SPDT	White					
111	1087TW-N	38	3x screw term.	SPDT	White					
all	DC102	18	2x screw term.	NC	White	EN1				
11	DC102B	18	2x screw term.	NC	Brown					
all	DC102R4.7	18	2x screw term.	NC	White					
all	DC104	9–31	3x screw term.	CO	White		NCERT			
]]	DC116	31	3x screw term.	NC	White		INCERT			
UI	DC123	18	3x screw term.	CO	White		NCERT			

Surface mount - Terminal (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	R	Incert	SbV	NFA2P	IMQ
1011	DC134	37	3x screw term.	NC	White					
all	DC137	37	3x screw term.	NC	White		NOERT			
]]]	DC142	75	3x screw term.	NC	White					
][DC143	9–31	3x screw term.	СО	White					
	IM9700FENFBB	34	6x screw term.	NC	White					
	MM101	14	5x screw term.	NC	White					
	MM102	20	5x screw term.	NC	White					
111	MM102B	20	5x screw term.	NC	Brown					
	MM201	34	6x screw term.	NC	White					
11	IM9700FENFBB- G3	20	6x screw term.	NC	White					
1)	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 mm	EN	Incert	VdS	NFA2P	IMQ
AT	1074D-N	13	2x30	DPDT	White	9					
1	1075-N-3K3	13	2x200	NC	White	9					
AP	1076D-G	9	2x30	DPDT	Grey	25,4					
ALL ALL	1076D-N	9	2x30	DPDT	White	25,4					
AN	1078-G	13	2x30	NC	Grey	25,4					
N. W.	1078-N	13	2x30	NC	White	25,4					
AN	1078W-G	25	2x30	NC	Grey	25,4					
N. W.	1078W-N	25	2x30	NC	White	25,4					
T	DC106	12	4x200	NC	White	9,5	EN2	NCERT			q 1
T	DC106-D	12	4x200	NC	White	9,5			VdS _B		
T	DC106R4.7	12	4x200	NC	White	9,5	EN2	NCER,			

Recessed mount - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	R	Incert	SbV	NFA2P	IMQ
Y	DC106S9	12	4x300	NC	White	9,5					
AN	DC107	9	4x200	NC	White	19	EN2				
AF	DC1076	9	4x200	NC	White	19	EN2				
AF	DC1076-6M	9	4x600	NC	White	19					
AF	DC107R4.7	9	4x250	NC	White	19	EN2				
AF	DC107S60	9	4x600	NC	White	19	EN2				
N.	DC120	18	4x250	NC	White	9,5	EN2				
N.	DC120S60	18	4x600	NC	White	9,5	EN2				
1	DC121	12	4x200	NC	White	9,5					
1	DC121S60	12	4x600	NC	White	9,5					
AF	DC124	9	5x200	CO	White	19	EN2	NCERT			

Recessed	mount -	Wired	(ctd.)
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	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	EN	Incert	VdS	NFA2P	IMQ
1	DC127	31	4x200	NC	White	9,5		NCERT			
1	DC128	15	4x200	NC	White	8	EN3		VdS _C		
1	DC128R4.7	15	4x200	NC	White	8	EN3		VdS _C		
1	DC128S60	15	4x600	NC	White	8	EN3		vds _C		
1 Mar	DC138	12	4x200	NC	White	19	EN3		VdS _C		
A.F.	DC138R4.7	12	4x200	NC	White	19	EN3		VdS _C		
AF	DC138S60	12	4x600	NC	White	19	EN3		VdS _C		
	DC555	26	4x200	NC	White	64					
A.F.	DC888	18	4x200	NC	White	19,1					
at the second se	IM1340FENF0 2BC	7	4x200	NC	White	8					
-	IM1340TINF0 1BE2	7	4X100	NC	White	8					
	IM1340TINF0 2BC	7	4x200	NC	White	8					
	IM1340TINF0 5BC	7	4x500	NC	White	8					

Recessed mount - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	EN	Incert	VdS	NFA2P	IMQ
Ĭ	MM110	15	4x200	NC	White	8					
1	MM340	7	4x100	NC	White	8					
1	R1125-N	13	2x30	NC	White	9					
1	R1125W-N	22	2x30	NC	White	9					
1	IM1340TINF0 2BC-G3	17	4x200	NC	White	8					
1	IM1340TINF0 5BC-G3	17	4x500	NC	White	8					
1	MM340-G3	17	4x200	NC	White	8					

Recessed mount - Terminal

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	EN	Incert	VdS	NFA2P	IMQ
ALT .	1078CT-N	9	2x screw term.	NC	White	19					
a land	R1125T-N	13	2x screw term.	NC	White	9					
e land	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	EN	Incert	SbV	NFA2P	IMQ
10	2202AU*-LCXB	76	4x90	NC	Alu					
1	AMK4SLSA	16	4x100	NC/NO	Grey			VdS _C		
1.	DC108	75	4x200	NC	Alu	EN2		VdS B		q 1
1.	DC108R4.7	75	4x200	NC	Alu	EN2	NCERT			
1.	DC109	75	4x200	NC	Alu		RCER			
11	DC110	19–63	5x200	СО	Alu					
11.	DC111	5–15	6x200	СО	Alu	EN3		VdS _C		q 11
11	DC115	9–62	5x200	CO	Alu	EN2				q 1
	DC118	75	4x200	NC	Alu	EN2	NCERT	VdS B		
1.	DC140	75	4x200	NC	Alu					
10	DC408	34	4x200	NC	Grey	EN3		VdS _C		

Overhead contacts - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	R	Incert	SbV	NFA2P	IMQ
/a	DC408R4.7	34	4x200	NC	Grey	EN3		VdS _C		
11	DC428	10-20	9x400	NC	Grey	EN4				
14	IM1740FENF*81	84	4x60	NC	Alu					
1	IM1740FENF012	84	4x60	NC	Alu					
) e	IM1741TINF012	54	4x60	NC	Alu					
1	MM106	50	4x45	NC	Alu		NO.			
10	MM740	84	4x60	NC	Alu					
1.	SC2202SAAAB01	93	4x60	NC	Alu					
Į.	IM1740FENF*81-G3	25	4x130	NC	Alu					
A.	MM740-G3	25	4x130	NC	Alu					

Special applications

Special applications - Wired

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	ß	Incert	VdS	NFA2P	MQ
-	3012-N	N/A	2x30	NC	White						
11	DC105	12	4x250	NC	White	6,4	EN2				
11	DC105-D	12	4x250	NC	White	6,4			VdS _B		
11	DC105S8	12	4x250	NC	White	6,4					
1	DC113	N/A	4x200	NC	White			NCERT			
T	DC114	N/A	4x200	NC	White			NCERT			
1-1	DC301	N/A	3x180	CO	Black						
1	DC501	N/A	4x200	NC	White			NCERT			
SPO	EMK46ATLSA	22	4x200	NC	White	8			VdS B		
NP2	EMK46ATLSA4	22	4x400	NC	White	8			VdS _B		
MAG	EMK46ATLSA4B	22	4x400	NC	Brown	8			VdS _B		

Special applications - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	EN	Incert	VdS	NFA2P	IMQ
NP2	EMK46ATLSA6	22	4x600	NC	White	8			VdS _B		
(Que	EMK46ATLSAB	22	4x200	NC	Brown	8			VdS _B		
0	EMK46SNAT	22	4x400	NC	White	8			VdS _C		
S.PC	EMK48ATLSA4	22	4x400	NC	White	8			VdS _B		
NP2	EMK48ATLSA6	22	4x600	NC	White	8			VdS _B		
O	MK46-AD	22	2x400	NO	White	8			VdS _B		



Security Solutions:



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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