



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	N.	Incert	SpA	NFA2P	IMQ
	1085*-NCVB6	16	4x180	NC	White	EN2				
	DC101	15	4x200	NC	White	EN2	NCERT			@ 1
-	DC101B	15	4x200	NC	Brown	EN2				
	DC101-D	15	4x200	NC	White			VdS B		
F	DC101R4.7	15	4x250	NC	White	EN2	NCERT			

Surface mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	N N	Incert	SpA	NFA2P	IMQ
=	DC101S60	15	4x600	NC	White	EN2	INCERT			
	DC103	15-31	4x200	NC	White	EN2	INCERT			
1	DC141	25	4x200	NC	White		INCERT			
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				
MA	IM1440FENF01BE2	11	4x100	NC	White					
N/A	IM1440FENF02BC	11	4x200	NC	White				₽	
MA	IM1440FENF05BC	11	4x500	NC	White				AÇÊ	
	IM1640PAG	25	4x60	NC	White				₽ŞŞÝ	
NO.	IM1640PAG01JB	25	4x100	NC	White					

Surface mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	N	Incert	SpA	NFA2P	IMQ
11	IM1640PAGELK	25	4x60	NC	White					
11	IM1640PSG	25	4x85	NC	White				HŞŞ	
+	IM1820TINF*8	14	2x85	NC	White					
-\	IM1920TINF*8	21	2x85	NC	White					
	MM108	50	4x50	NC	Alu					
EV.	MM115	15	4x200	NC	White		NCERT			
	MM440	11	4x85	NC	White				HŞŞ.	
11	IM1440FENF02BC- G3	19	4x200	NC	White				₽	
11	MM440-G3	19	4x100	NC	White				ASS.	
	M1640PAG-G3 (Armored cable)	15	4x100	NC (single-pole NO contact)	White	EN3			ASS.	
17	M1640PSG-G3	15	4x100	NC (single-pole NO contact)	White	EN3			HSP HSP	

Surface mount - Terminal

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

Surface mount – Terminal (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	N N	Incert	SpA	NFA2P	IMQ
11111	DC134	37	3x screw term.	NC	White		INCERT.			
	DC137	37	3x screw term.	NC	White		NO.			
	DC142	75	3x screw term.	NC	White		NOERT			
]]]	DC143	9–31	3x screw term.	CO	White		NO.			
	IM9700FENFBB	34	6x screw term.	NC	White				ASS.	
	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				ASS.	
11	IM9700FENFBB- G3	20	6x screw term.	NC	White				REW A	
11	MM201-G3	20	6x screw term.	NC	White				REP	

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 EN	Incert	SpA	NFA2P	IMQ
T	1074D-N	13	2x30	DPDT	White	9					
1	1075-N-3K3	13	2x200	NC	White	9					
AF	1076D-G	9	2x30	DPDT	Grey	25,4					
The same	1076D-N	9	2x30	DPDT	White	25,4					
AF	1078-G	13	2x30	NC	Grey	25,4					
AC.	1078-N	13	2x30	NC	White	25,4					
AM	1078W-G	25	2x30	NC	Grey	25,4					
No.	1078W-N	25	2x30	NC	White	25,4					
1	DC106	12	4x200	NC	White	9,5	EN2	NCERT			q _I
1	DC106-D	12	4x200	NC	White	9,5			VdS B		
1	DC106R4.7	12	4x200	NC	White	9,5	EN2	NCERT,			

Recessed mount – Wired (ctd.)

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

Recessed mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	N N	Incert	SpA	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		
A P	DC138	12	4x200	NC	White	19	EN3		vds C		
A P	DC138R4.7	12	4x200	NC	White	19	EN3		vds C		
A A	DC138S60	12	4x600	NC	White	19	EN3		VdS C		
1	DC555	26	4x200	NC	White	64					
N. P.	DC888	18	4x200	NC	White	19,1					
4	IM1340FENF0 2BC	7	4x200	NC	White	8				€	
1	IM1340TINF0 1BE2	7	4X100	NC	White	8					
1	IM1340TINF0 2BC	7	4x200	NC	White	8				AŞŞ	
1	IM1340TINF0 5BC	7	4x500	NC	White	8				ASP.	

Recessed mount – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	N N	Incert	SpA	NFA2P	IMQ
Ì	MM110	15	4x200	NC	White	8		NCERT			
1	MM340	7	4x100	NC	White	8					
T.	R1125-N	13	2x30	NC	White	9					
T.	R1125W-N	22	2x30	NC	White	9					
	IM1340TINF0 2BC-G3	17	4x200	NC	White	8					
	IM1340TINF0 5BC-G3	17	4x500	NC	White	8				REP HER	
1	MM340-G3	17	4x200	NC	White	8					

Recessed mount – Terminal

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	N N	Incert	SpA	NFA2P	IMQ
MA	1078CT-N	9	2x screw term.	NC	White	19					
· Marie	R1125T-N	13	2x screw term.	NC	White	9					
· Tall	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	SpA	NFA2P	DMI
MA	2202AU*-LCXB	76	4x90	NC	Alu					
11	AMK4SLSA	16	4×100	NC/NO	Grey			vds _C		
	DC108	75	4×200	NC	Alu	EN2	INCERT	VdS B		q _I
	DC108R4.7	75	4×200	NC	Alu	EN2	INCERT			
	DC109	75	4×200	NC	Alu		INCERT			
	DC110	19–63	5×200	СО	Alu		INCERT			
	DC111	5–15	6x200	CO	Alu	EN3		VdS C		q _{II}
	DC115	9–62	5x200	CO	Alu	EN2	INCERT			q _I
	DC118	75	4x200	NC	Alu	EN2	INCERT	VdS B		
	DC140	75	4x200	NC	Alu		INCERT			
In	DC408	34	4x200	NC	Grey	EN3		vds C		

Overhead contacts - Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Z	Incert	SpA	NFA2P	IMQ
Ma	DC408R4.7	34	4x200	NC	Grey	EN3		vds C		
11	DC428	10-20	9x400	NC	Grey	EN4				
NE	IM1740FENF*81	84	4x60	NC	Alu				AZIV	
NE	IM1740FENF012	84	4x60	NC	Alu					
NE	IM1741TINF012	54	4x60	NC	Alu					
	MM106	50	4x45	NC	Alu		INCERT			
DE	MM740	84	4x60	NC	Alu				AZP AZP	
	SC2202SAAAB01	93	4x60	NC	Alu				HSP	
No.	IM1740FENF*81-G3	25	4×130	NC	Alu				ARE AREA	
No.	MM740-G3	25	4x130	NC	Alu				AZ P	

Special applications

Special applications – Wired

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	NI NI	Incert	SpA	NFA2P	IMO
	3012-N	N/A	2x30	NC	White						
111	DC105	12	4x250	NC	White	6,4	EN2				
111	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			
1	DC114	N/A	4x200	NC	White			NCERT			
	DC301	N/A	3x180	CO	Black						
1	DC501	N/A	4x200	NC	White			NCERT			
SIPE	EMK46ATLSA	22	4x200	NC	White	8			vds B		
SIPE	EMK46ATLSA4	22	4x400	NC	White	8			vds B		
m90	EMK46ATLSA4B	22	4x400	NC	Brown	8			vds B		

Special applications – Wired (ctd.)

	Code	Gap mm	Connection	Contact type	Colour	Diameter mm	E N	Incert	SpA	NFA2P	IMQ
SPE	EMK46ATLSA6	22	4x600	NC	White	8			VdS B		
O	EMK46ATLSAB	22	4x200	NC	Brown	8			VdS B		
0	EMK46SNAT	22	4x400	NC	White	8			VdS C		
SUP.	EMK48ATLSA4	22	4x400	NC	White	8			VdS B		
SIP.	EMK48ATLSA6	22	4x600	NC	White	8			VdS B		
	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 Linkedln @Aritech.

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