Electromagnets with Connection Terminal

Models Q, R, RI, F

DICTATOR electromagnets are used in hold-open systems to keep fire protection doors open.

Electromagnets of the ranges Q, R, RI and F include magnets with diameters of 40, 50, 60 and 70 mm. They differ in force, design and size. They are provided with a connection terminal to allow for an easy installation.

The magnets and the mounting plates are made of steel and are zinc-plated.

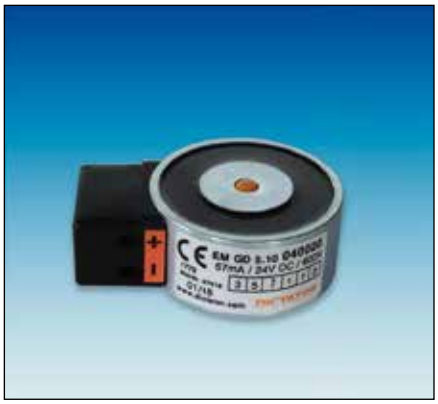
DICTATOR magnets are equipped with a spark extinction diode. In the event of faulty connection, the integrated polarity protection prevents the spark extinction diode being destroyed.

The electromagnets with connection terminal types EM GD 50 und 60 R 261 can be connected to both 24 VDC and 24 VAC.

Most of the electromagnets of the Q, R, RI and F series are **tested** according to EN 1155 and **among others** are included in the following **approvals**: Z-6.5-1903, Z-6.5-1707.

Technical Data

Voltage, standard configuration	24 VDC ± 10 %
Voltages, special configurations	24 VAC ± 10 % , 230 VAC, 230 VDC
Power consumption	67 mA to 142 mA
Duty cycle	100 %
Operating temperature	-20 °C to +60 °C
Holding force	300 N to 2000 N
Remanence	0 N
Surface magnet, mounting plate	zinc-plated

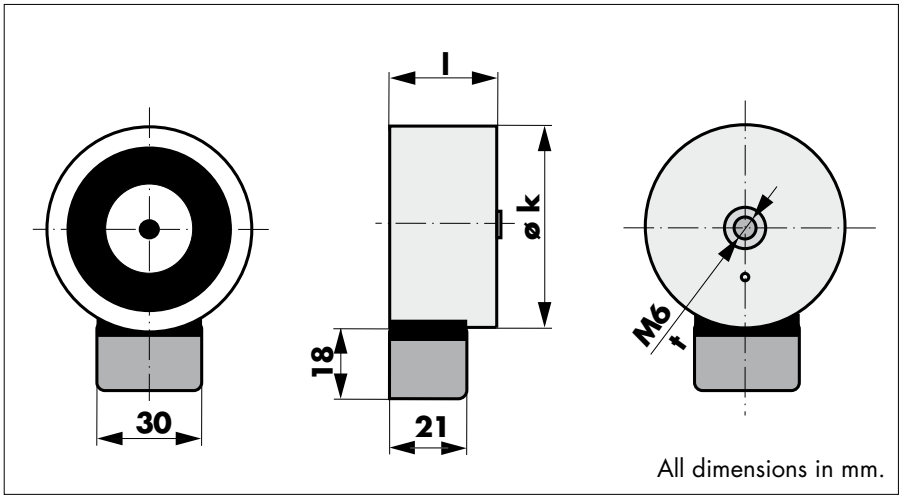


Electromagnets with Connection Terminal
Model Q

The electromagnets of the Q range are without base plate. They are fixed by means of a threaded hole in the back of the magnet.

The electromagnets of the Q range are connected in the connection terminal fixed laterally to the magnet.

Dimensions



All dimensions in mm.

Type	k	l	t
EM GD 50 Q 23	ø 50	23	10
EM GD 70 Q 35	ø 70	35	15

Technical Data

Electromagnet EM	Voltage	Power consumption	Holding force
GD 50 Q 23	24 VDC ±10%	67 mA (= 1.6 W)	600 N
GD 70 Q 35	24 VDC ±10%	71 mA (= 1.7 W)	1450 N

Order Information

EM GD 50 Q 23 electromagnet	force	600 N	part no. 040020
EM GD 70 Q 35 electromagnet	force	1450 N	part no. 040022

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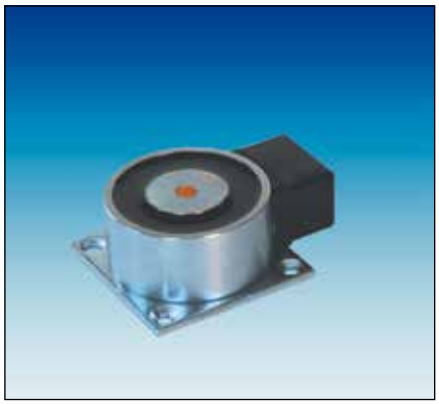
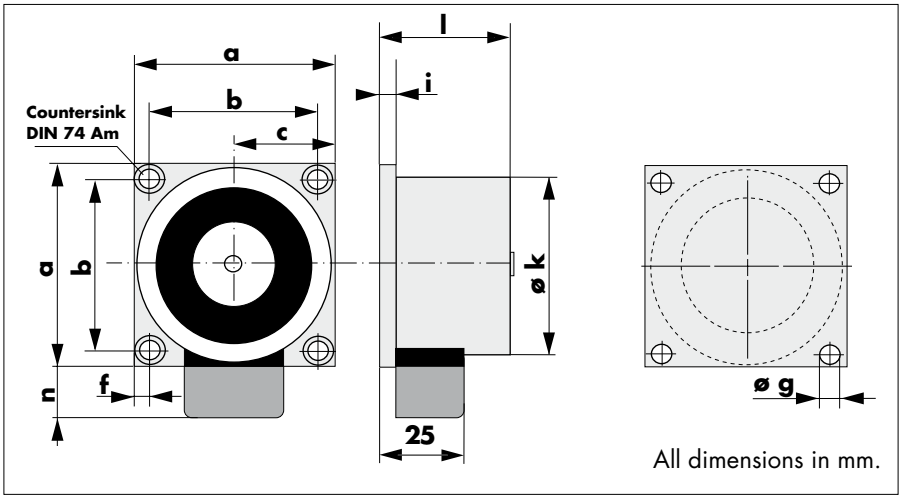


Electromagnets with Connection Terminal
Model R

The electromagnets of the R range are connected in the connection terminal fixed laterally to the magnet.

Dimensions



Type	a	b	c	f	g	i	k	l	n
EM GD 50 R 26	55	44	27.5	5.5	ø 4.5	3	ø 50	26	18
EM GD 60 R 26	65	55	32.5	5	ø 4.5	3	ø 60	26	18
EM GD 70 R 39	75	60	37.5	7.5	ø 5.5	4	ø 70	39	18

Technical Data

Electromagnet EM	Voltage	Power consumption	Holding force
GD 50 R 26	24 VDC ±10%	67 mA (= 1.6 W)	600 N
GD 60 R 26	24 VDC ±10%	67 mA (= 1.6 W)	700 N
GD 60 R 26 S	24 VDC ±10%	79 mA (= 1.9 W)	1000 N
GD 70 R 39	24 VDC ±10%	71 mA (= 1.7 W)	1450 N
GD 70 R 39 S	24 VDC ±10%	142 mA (= 3.4 W)	1700 N
GD 70 R 39 R	24 VDC ±10%	142 mA (= 3.4 W)	2000 N

Order Information

EM GD 50 R 26 electromagnet	force 600 N	part no. 040021
EM GD 60 R 26 electromagnet	force 700 N	part no. 040133
EM GD 60 R 26 S electromagnet	force 1000 N	part no. 040134
EM GD 70 R 39 electromagnet	force 1450 N	part no. 040023
EM GD 70 R 39 S electromagnet*	force 1700 N	part no. 040117
EM GD 70 R 39 R electromagnet*	force 2000 N	part no. 040118

* not tested according to EN 1155

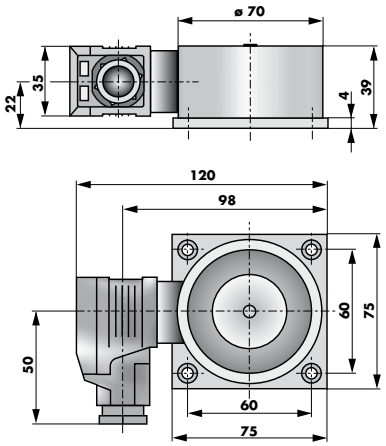
Electromagnets with Connection Terminal

Model RI with Connection Terminal IP 65

The electromagnets of the RI range are connected in the waterproof plastic connection terminal. The EM GD 70 is also available with a Pg 13.5 inlet, especially for the use on **ships** with a larger cable diameter. In case the magnets are exposed to the **sun**, they are available with an UV resistant sealing compound (**grey, contains silikone!**).

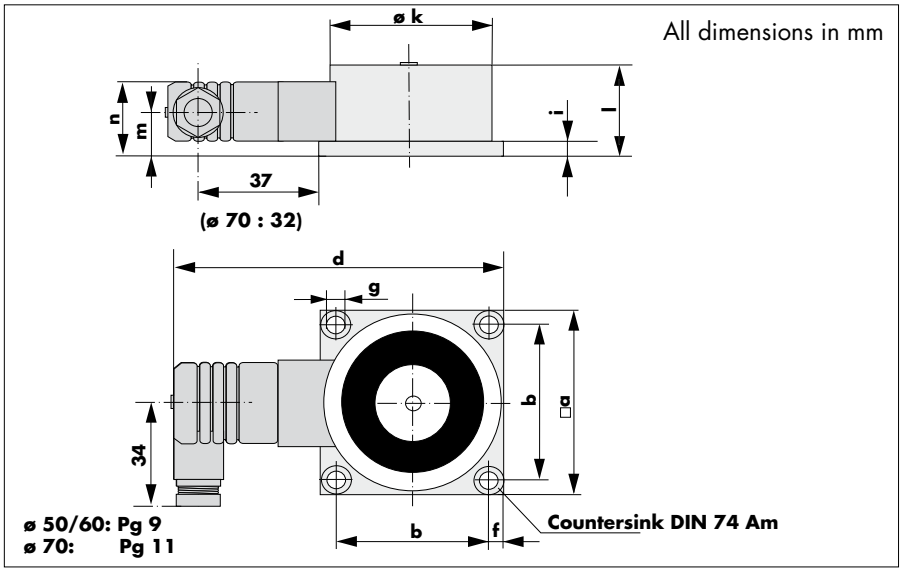
The electromagnets EM GD 50 and 60 are designed to be used with both 24 VDC and 24 VAC.

Dimensions



Model for connection cables up to ø 14 mm, e.g. on ships

All dimensions in mm



Type	a	b	d	f	g	i	k	l	m	n
EM GD 50 R 26 I	55	44	100	5.5	Ø 4.5	3	Ø 50	26	14	25
EM GD 60 R 26 I	65	55	110	5	Ø 4.5	3	Ø 60	26	14	25
EM GD 70 R 39 I	75	60	118	7.5	Ø 5.5	4	Ø 70	39	20	35

Technical Data

Electromagnet EM	GD 50 R 26 I	GD 60 R 26 I	GD 60 R 26 IS	GD 70 R 39 I
Voltage	24 VDC/AC ±10 %			24 VDC ±10%
Power consumption	67 mA (1.6 W)	67 mA (1.6 W)	79 mA (1.9 W)	71 mA (1.7 W)
Holding force	600 N	700 N	1000 N	1450 N

Order Information

EM GD 50 R 26 I, 24 VDC/AC	600 N	part no. 040107
EM GD 60 R 26 I, 24 VDC/AC	700 N	part no. 040131
EM GD 60 R 26 IS, 24 VDC/AC	1000 N	part no. 040132
EM GD 60 R26 IS, 24 VDC/AC **UV**	1000 N	part no. 041014
EM GD 70 R 39 I, 24 VDC	1450 N	part no. 040108
EM GD 70 R 39 I, 230 VDC*	1450 N	part no. 040208
EM GD 70 R 39 I, 230 VAC*	1450 N	part no. 040259
EM GD 70 R 39 I, PG 13.5, 24 VDC	1450 N	part no. 040222

* not tested according to EN 1155

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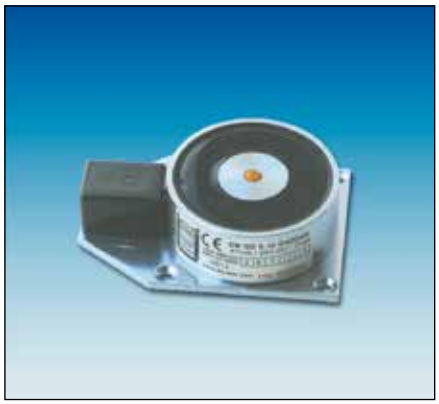
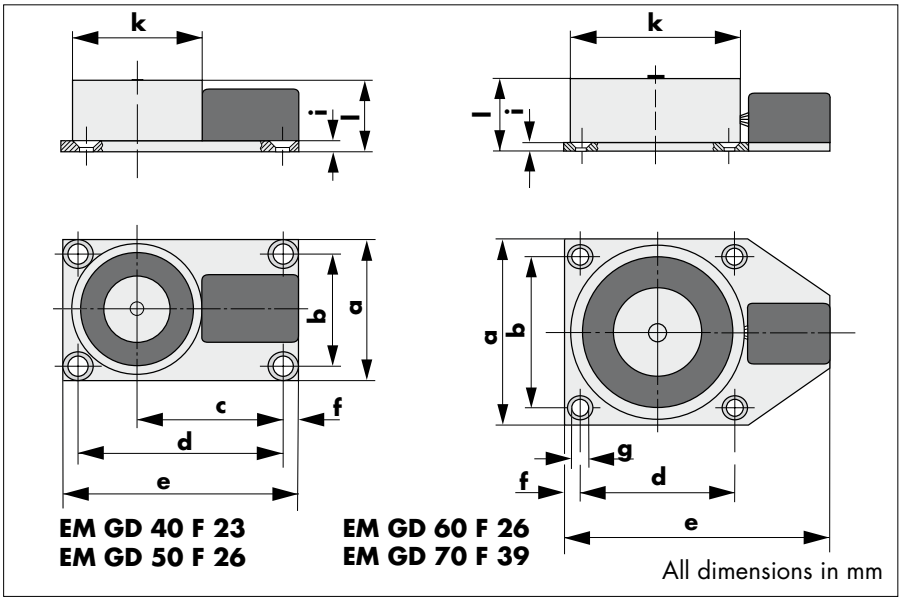


Electromagnets with Connection Terminal
Model F

Electromagnets of the range F include magnets with diameters of 40, 50, 60 and 70 mm. They differ in force and size (see technical data).The connection terminal is on the mounting plate of the magnet.

Dimensions



EM GD 40 F 23
EM GD 50 F 26

EM GD 60 F 26
EM GD 70 F 39

All dimensions in mm

Type	a	b	c	d	e	f	g	i	k	l
EM GD 40 F 23	45	35	45	63	73	5	Ø 4.5	3	Ø 40	23
EM GD 50 F 26	55	44	51	74	83	4.5	Ø 4.5	3	Ø 50	26
EM GD 60 F 26	65	55	-	55	93	5	Ø 4.5	3	Ø 60	26
EM GD 70 F 39	75	60	-	60	103	7.5	Ø 5.5	4	Ø 70	39

Technical Data

EM GD	Power consumption	Force	EM GD	Power consumption	Force
40 F 23	75 mA (1.8 W)	300 N	**70 F 39**	71 mA (1.7 W)	1450 N
50 F 26	67 mA (1.6 W)	600 N	**70 F 39 S**	142 mA (3.4 W)	1700 N
60 F 26	67 mA (1.6 W)	700 N	**70 F 39 R**	142 mA (3.4 W)	2000 N
60 F 26 S	79 mA (1.9 W)	1000 N			

Order Information

EM GD 40 F 23 electromagnet*	force	300 N	part no. 040085
EM GD 50 F 26 electromagnet	force	600 N	part no. 040106
EM GD 60 F 26 electromagnet	force	700 N	part no. 040049
EM GD 60 F 26 S electromagnet	force	1000 N	part no. 040163
EM GD 70 F 39 electromagnet	force	1450 N	part no. 040037
EM GD 70 F 39 S electromagnet*	force	1700 N	part no. 040115
EM GD 70 F 39 R electromagnet*	force	2000 N	part no. 040122

* not tested according to EN 1155

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