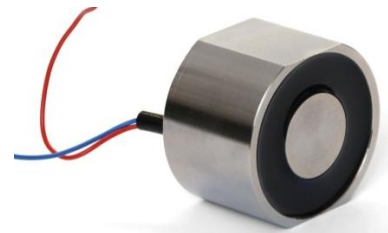


Electrical holding solenoid, holding magnet Typ EG1



The following holding solenoids are ex stock standard products.

Normally Magnetbau Schramme developments are customer-specific. If you are searching for the right electromagnet, solenoid or holding magnet for your series project, simply contact us for the perfect solution.

Also for holding magnets we have special customized product, as you can see in the pictures above.

Our team will help you - guaranteed.

Please note for all the other products, that we do not have „ex stock“ standard products, and can therefore only process inquiries for series.
(Subject to modification)

Magnetbau Schramme GmbH & Co. KG
Zur Ziegelhütte 1-5
D-88693 Deggenhausertal
Sitz der Gesellschaft: Deggenhausertal
Registergericht: Freiburg i.Br. HRA 581101
USt-IDNr.: DE814460086

Phone +49 (0) 7555 9286-0
Fax +49 (0) 7555 9286-30

www.magnetbau-schramme.de
info@magnetbau-schramme.de

Wir sind
zertifiziert nach
IATF 16949
ISO 9001

member of **Schramme** group



Function

Holding electromagnets are magnet systems with open magnetized circuits serving to secure ferromagnetic parts once these magnets are switched on. The holding forces of the securing magnets are largely dependent upon the degree of magnetizability and the surface quality of the parts to be secured.

Characteristic

Holding magnets show sharply rising magnetic force/stroke characteristics. The holding force increases with decreasing air gap.

Installation Instructions

These magnets may be installed in any desired position. Tapholes are provided on the front side for mounting the holding magnets. When working with holding magnets, the relevant Rules for the prevention of accidents have to be observed. When employing these units, the „[Technical Introduction](#)” is to be observed.

Nominal Data (recommended):

Nominal supply voltage:	U _N 24 VDC
Relative duty cycle:	100%
Insulation class:	"H" according to VDE 0580
Limiting temperature:	180 °C
Type of protection, device:	IP 65 according to DIN 40050
Electric connection:	IP 00, flying leads according to DIN 43650
Insulation class	H

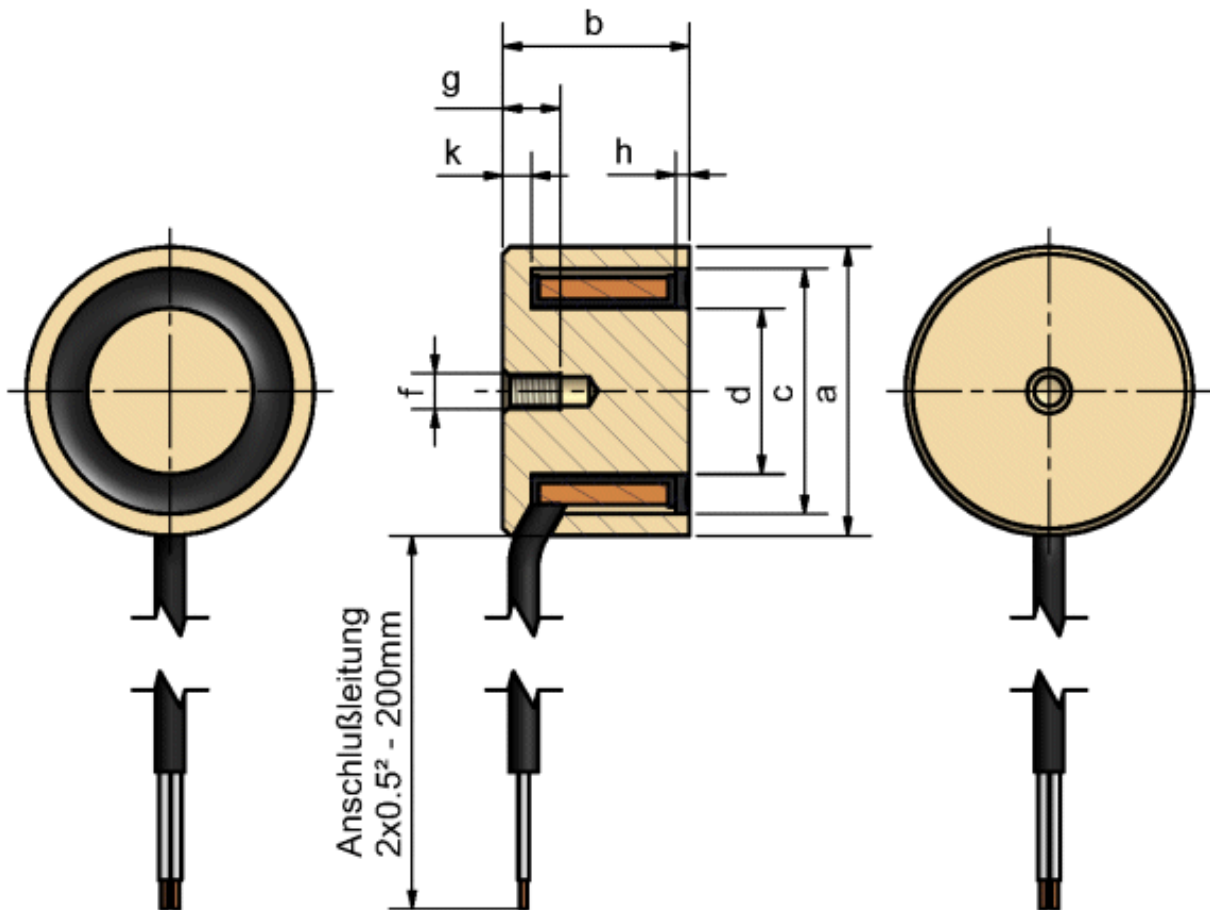
Technical Data for Electrical Holding Solenoid Typ EG1 (Standard)

Technical features

- + Nominal supply voltage 24 V, relative duty cycle 100% ED
- + F1 = ideal facing, armature plate and pol face of the housing grounded, 0 mm air gap
- + F2 = zinc coated holding plate and pol face (delivery status)

Typ	Holding surface Ø [mm]	F1 [N]	F2 [N]	Minimal material thickness of the armature [mm]	Power consumption [W]	Weights [kg]
EG1 020	20	100	60	3,5	2	0,05
EG1 025	25	220	150	4,0	2,5	0,07
EG1 030	30	350	280	4,5	3,1	0,12
EG1 040	40	650	520	5,5	4,5	0,21
EG1 050	50	950	750	8,0	7,0	0,35
EG1 060	60	1600	1400	9,5	8,5	0,60
EG1 080	80	3150	2800	11,5	15,4	1,40
EG1 100	100	4600	4100	13,5	21,0	2,70
EG1 150	150	-	11000	20,0	32,0	7,00
EG1 180	180	-	18000	23,5	58,0	11,00
EG1 200	200	-	24000	26,5	81,0	16,30

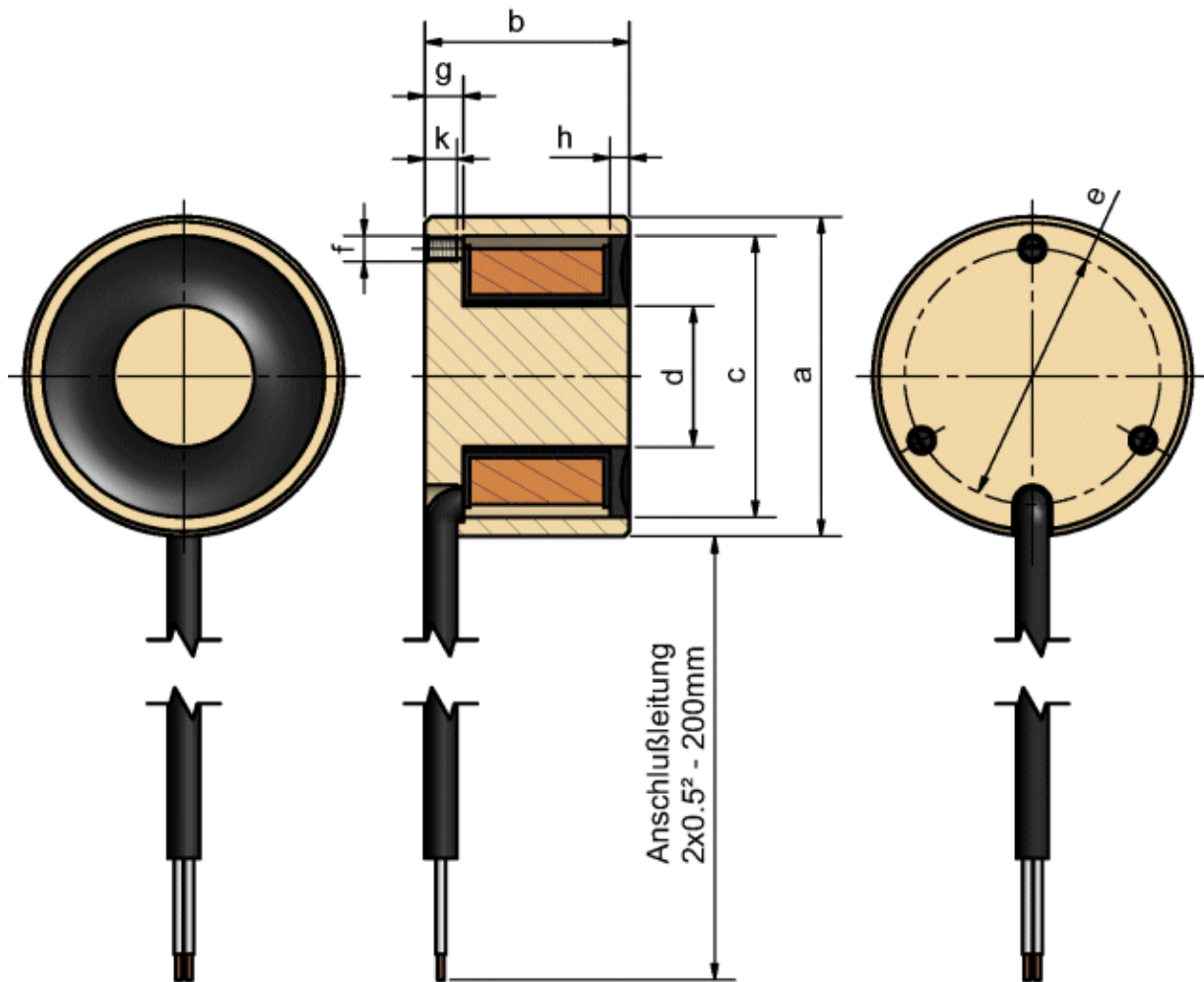
Installation drawing of Electrical holding magnet EG1 020 to EG1 040



Dimensions in mm

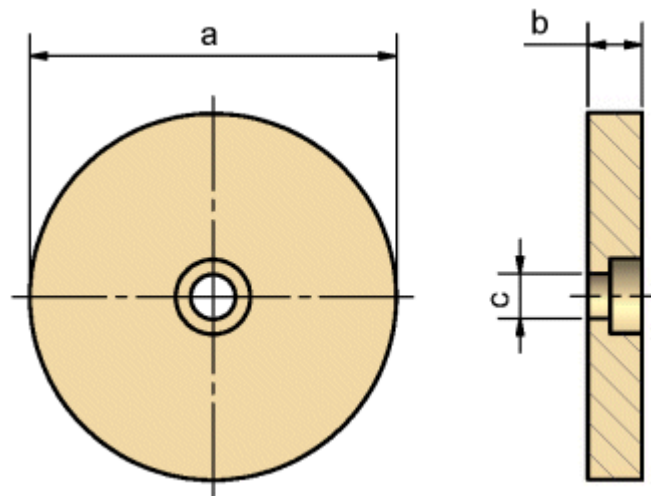
Typ	Øa	b	Øc	Ød	e	F	g	h	k
EG1 020	20	19	18	8	-	M3	5	2	4
EG1 025	25	19	22	12	-	M4	7	2	4
EG1 030	30	25	25	15,5	-	M4	7	2	4
EG1 040	40	26	34	23	-	M5	8	2	4

Installation drawing of Electrical holding magnet EG1 050 to EG1 200



Dimensions in mm

Typenbezeichnung	$\varnothing a$	b	$\varnothing c$	$\varnothing d$	e	F	k	h	g
EG1 050	50	32	44	22	40	M4	5	3	6
EG1 060	60	36	52	29	45	M4	6	3	10
EG1 080	80	44	70	44	62	M5	8	3	13
EG1 100	100	50	84	57	72	M5	8	3	15
EG1 150	150	58	124	87	116	M6	10	3	17
EG1 180	180	68	150	107	140	M8	12	5	20
EG1 200	200	82	165	116	150	M10	15	5	23



Holding Plate	Ø a	b	c
EG1 025-...	27	4,0	M4
EG1 030-...	32	4,5	M4
EG1 040-...	42	5,5	M4
EG1 050-...	54	8,0	M6
EG1 060-...	64	9,5	M6
EG1 080-...	84	11,5	M6
EG1 100-...	106	13,5	M8
EG1 150-...	156	20,0	M8
EG1 180-...	186	23,5	M10
EG1 200-...	206	26,5	M10