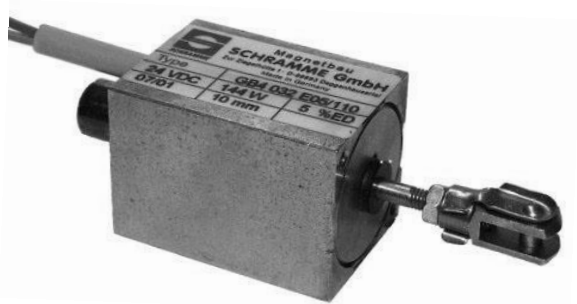
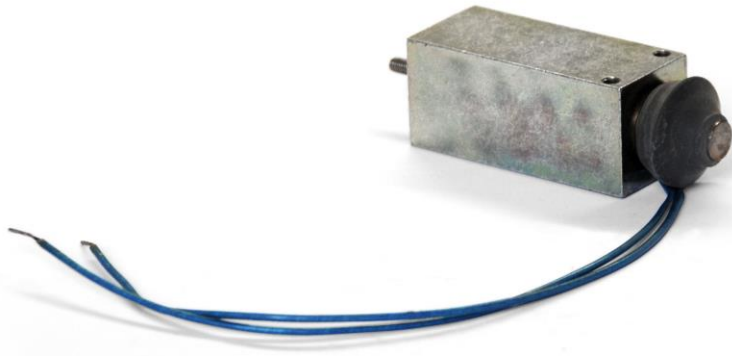


Miniature Solenoid Typ GB4 and GB5



The following electromagnets are examples for miniature solenoids realized in series. Magnetbau Schramme developments are customer-specific. If you are searching for the right electromagnet or solenoid for your series project, simply contact us for the perfect solution.

Our team will help you - guaranteed.

Please note that we do not have „ex stock“ standard products, and can therefore only process inquiries for series.

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Wir sind
zertifiziert nach
IATF 16949
ISO 9001

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DEUTDESS620

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DE89 6207 0081 0113 7868 00



Operation

Mini-solenoids are single-action linear solenoids using electromagnetic force to provide motion from the initial position to the final position, with the return force provided by external force.

Characteristics

These solenoids are from series production. The first 80% of travel evidences a flat response curve; the magnetic force rises 200 to 300% during the final 20%

Installation

Any desired position is suitable.

The operation force is to be used only in the axial direction. The Technical Explanations must be observed when using these units.

The power transfer should take place only in axial direction; lateral loads on the plunger are to be avoided. When employing these units, the „[Technical Introduction](#)“ is to be observed.

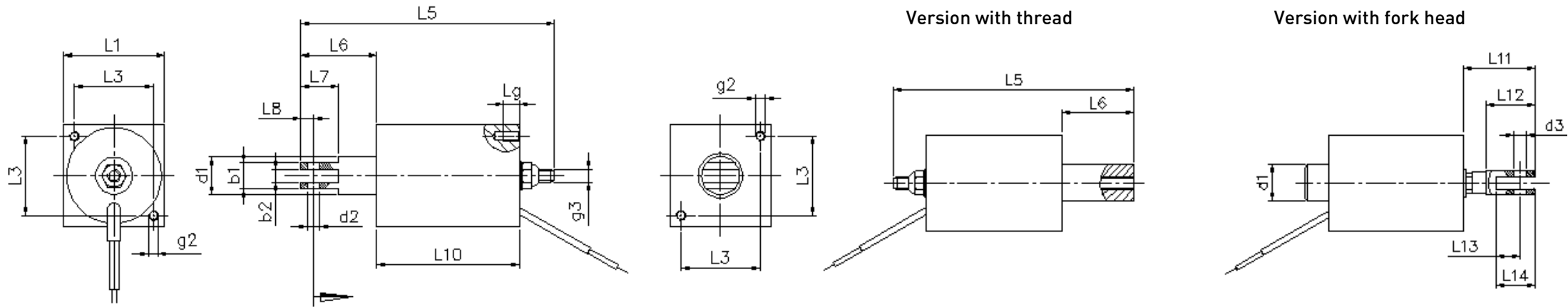
Nominal Data (recommended)

Nominal supply voltage:	U _N 24 VDC
Relative duty cycle:	100%
Insulation class:	"H" according to VDE 0580
Limiting temperature:	180 °C
Degree of protection:	IP 00 according to DIN 40050
Insulation class	H

Technical Data for Miniature Solenoid, DC Mini Solenoids, Typ GB4 und GB5

	Duty cycle [%]	Stroke [mm]	Nom. magnetic force [N]	Holding force [N]	Hubarbeit in Ncm	Power consumption [W]	Cycle times		Weights	
							Pull-up times [ms]	Release times [ms]	Armature [kg]	Total [kg]
GB4 016	100	2	1,5	2,5	0,5	5,0	30	25	0,012	0,075
	40		3,5	5,0	0,9	12,5	40	20		
	25		5,0	6,5	1,3	20,0	45	20		
	5		11,0	11,0	2,3	100,0	30	20		
GB4 020	100	2	4,5	6,0	1,0	5,5	28	25	0,015	0,11
	40		8,0	11,0	1,8	13,7	25	20		
	25		12,5	15,0	2,6	22,0	23	20		
	5		21,0	28,0	5,5	110,0	20	20		
GB5 020	100	5	3,0	6,0	1,5	6,7	60	40	0,025	0,17
	40		5,5	10,0	2,5	16,8	70	35		
	25		6,5	12,0	3,0	27,0	60	40		
	5		11,0	21,0	5,75	135,0	25	35		
GB4 025	100	5	3,5	13,0	2,0	6,0	50	40	0,025	0,15
	40		6,0	20,0	3,8	15,0	45	40		
	25		8,0	26,0	5,5	24,0	40	40		
	5		22,0	42,0	12,5	120,0	40	40		
GB4 032	100	10	4,5	17,5	6,0	7,2	80	60	0,04	0,3
	40		8,5	28,0	12,5	18,0	70	60		
	25		11,0	34,0	14,0	29,4	60	50		
	5		30,0	61,0	30,0	144,0	55	50		

Installation drawing Miniature solenoid typ GB4 and GB5



Dimensions in mm

	L1	L3	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	b1	b2	d1	d2	d3	g1	g2	g3
GB4 016	16	-	70,2	12,4	8,0	3	-	50	10	M3 x 6 thread no fork head					5	2	7	3	-	M3	-	M3
GB4 020	20	-	65,4	12,4	8,4	3	-	45	10						5	2	8	3	-	M3	-	M3
GB5 020	20	-	96,5	15,0	8,4	3	-	70	10						5	2	8	3	-	M3	-	M3
GB4 025	25	20	63,5	18,5	10,0	4	5	35	25	15	8	13	4	8	7	3	10	4	4	M4	M3	M4
GB4 032	32	25	80,0	24,0	12,0	4	5	45	25	15	8	13	4	8	8	4	12	4	4	M4	M3	M4