

English translation of German original

Technical Data Sheet TI-S11 Safety Lock KRG

For detailed functional description refer to „Technical Information TI-S10“. Furthermore important practical advices are given in the „Operating Manual BA-S11“.

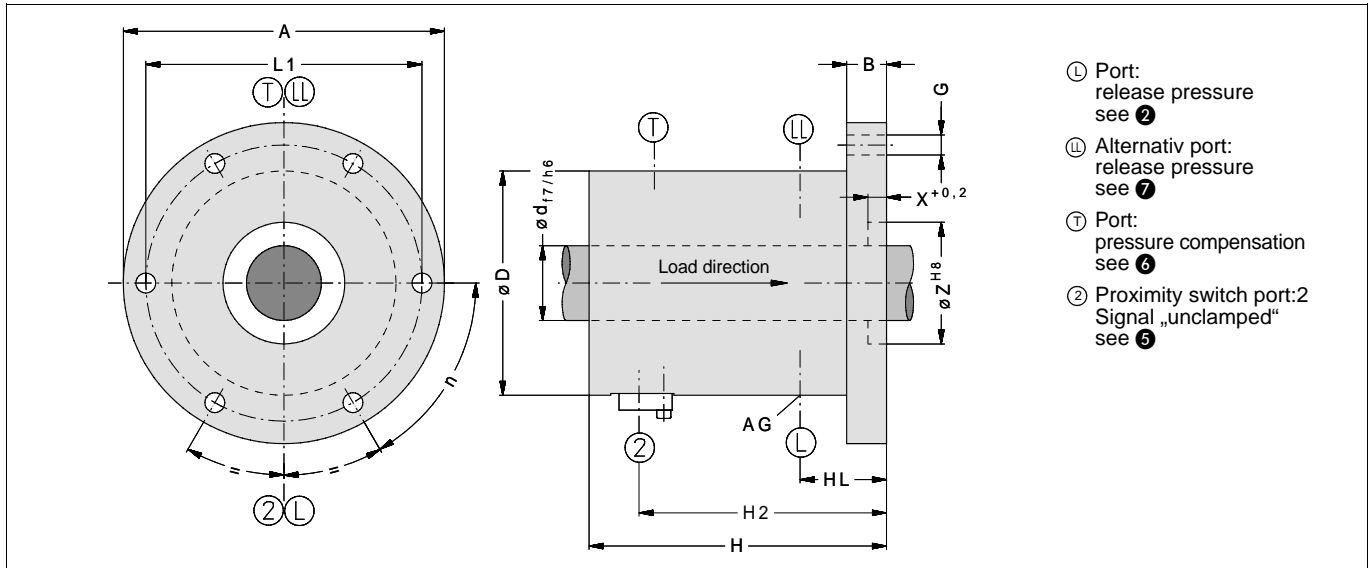


Fig. 1: Dimensions Safety Lock KRG (CAD-Files download at www.sitema.com)

Type	Ident.-No.	① ② ③										④						
		d	M	p	F100	H	D	A	B	Z	X	L1	n	G	AG	VL	HL	Weight
		mm	kN	bar	kN	mm	mm	mm	mm	mm	mm	mm	mm	mm		cm ³	mm	ca.kg
KRG 18	KRG 018 01	18	7	100	2	122	68	100	14	30	4	85	6x60°	6,6	G1/8	1	40	2
KRG 22	KRG 022 01	22	10	100	4	130	74	110	14	40	4	95	6x60°	6,6	G1/8	1	35,5	4,5
KRG 28	KRG 028 01	28	20	100	6	170	98	150	18	60	6	130	6x60°	9	G1/8	3	58	12
KRG 36	KRG 036 01	36	50	100	9	204	120	165	22	70	6	145	6x60°	11	G1/4	10	54	18
KRG 45	KRG 045 01	45	75	100	15	230	125	170	22	75	8	150	6x60°	11	G1/4	10	58	21
KRG 56	KRG 056 01	56	100	100	23	238	155	210	29	95	8	185	6x60°	14	G1/4	18	64	34
KRG 70	KRG 070 01	70	150	100	16	272	170	225	29	110	10	200	6x60°	14	G1/4	18	69	45
KRG 90	KRG 090 01	90	250	100	32	306	210	280	32	125	10	250	6x60°	18	G1/4	24	70	74
KRG 110	KRG 110 01	110	400	100	32	385	265	335	32	150	10	305	6x60°	18	G1/4	38	70	146

Subject to modification without prior notice

① M is the admissible force the mass to be secured exerts on the Safety Lock KRG.

Against forces in load direction (see Fig. 1) the rod will be totally blocked, the higher the force the stronger the grip. Therefore forces exceeding 2xM may cause damages of the device.

It must be ensured that the dimensions and arrangement of Safety Locks KRG in safety-relevant applications meet the requirements of the risk evaluation (EN 1050) and also comply with any further standards and regulations applying to the intended use. This is the duty of the system manufacturer and the user.

② p is the pressure required to keep released. The permissible working pressure is 160 bar.

③ Regarding safety it is an advantageous feature of the Safety Lock KRG, that it normally will not release unless not only pressure is applied but also the load is supported by the lifting drive. Thus automatically unintended releasing is prevented.

However, this is only true, if the the load exceeds a minimum limit which depends on the working air pressure. With for example 100 bar pressure the critical minimum load is equal to F100. Values for other pressure level will be given on request.

④ Hydraulic operating volume

⑤ Proximity switch holders are provided for standard proximity switches M12x1 shielded and with a nominal switching distance of 2 mm.

⑥ Port T is used for pressure compensation (breathing). It is plugged with an air filter element. If, however, moisture or aggressive media are present, a hose instead of the filter must be installed to connect the device with clean and dry atmosphere.

⑦ Plugged hydraulic port LL alternative to L, also usefull for bleeding.