

Technical Data Sheet TI-A12

Safety Catchers KRP series (with DGUV Test certificate)

Compressive load direction (to mounting surface)

For a general functional description with information about choosing the right type, the attachment, and control of a SITEMA Safety Catcher, see the Technical Information TI-A10.

Also observe the Operating Manual BA-A12.

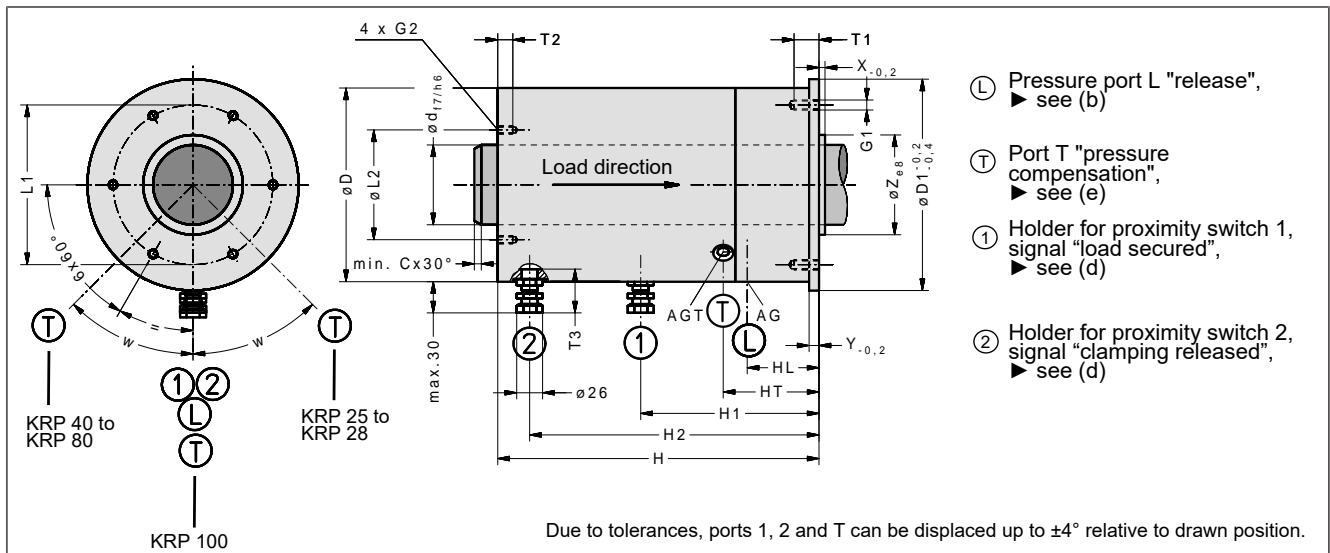


Fig. 1: Dimensions of the KRP Safety Catcher (download CAD files from www.sitema.com)

(a)														(d) (c)													
Type	ID no.	d	C	M	D	D1	H	Y	Z	X	L1	L2	G1	G2	T1	T2	T3	V	AG	AGT	HL	HT	H1	H2	w	Wt.	
	(order no.)	mm		kN	mm								-		mm			cm³	-		mm				-	kg	
KRP 25	KR 025 31	25	4	10	71	81	152	5	40	3	56	64	M6	M5	15	12	32	20	G1/8	G1/8	36	84	84	130	90°	4.5	
KRP 28	KR 028 31	28	4	15	82	92	169	5	45	3	65	73	M8	M5	15	12	32	30	G1/8	G1/8	39	88	88	145	90°	5.5	
KRP 40	KR 040 31	40	4	33	106	123	211	8	52	3	80	56	M8	M6	20	12	34	50	G1/4	G1/8	47	102	167	125	50°	10	
KRP 56	KR 056 31	56	4	67	140	156	262	8	70	3	115	75	M10	M6	25	12	45	80	G1/4	G1/8	52	118	122	166	30°	20	
KRP 80	KR 080 31	80	4	133	194	212	322	10	100	3	160	110	M10	M8	25	16	45	150	G1/4	G1/4	54	125	128	176	30°	58	
KRP 100	KR 100 21	100	5	220	240	-	365	-	120	7	160	135	M12	M8	24	16	34	340	G3/8	G1/4	22	122	285	235	0°	91	

bold types = standard sizes, available from stock

Subject to modification without prior notice

(a) M is the admissible load the mass to be secured exerts on the Safety Catcher. The holding (braking) force with a dry or hydraulic-oil wetted rod is at least $2 \times M$ but will not exceed $3.5 \times M$.

(b) The necessary pressure to keep the clamping released is 4 bar. Exception: if a spring base is installed, the required pressure for releasing without lifting is 6 bar (see Technical Data Sheet TI-A20).

The permissible operating pressure is 10 bar.

(c) Pneumatic operating volume

(d) Proximity switch holders are mounted for standard inductive proximity switches: M12 x 1, nominal switching distance 2 mm, flush mountable, NO (normally open); exceptions: KRP 25 and KRP 28: M8 x 1 with 1.5 mm nominal switching distance.

The dimension T3 indicates how deep the proximity switch immerses into the housing measured from the holder's top.

KRP 25 to KRP 80: For easier mounting, the proximity switch holders have a depth stop and are preset to the correct depth at delivery. The proximity switches only need to be inserted to the stop and then clamped.

KRP 40, KRP 56 and KRP 100: The proximity switch holders are positioned in reverse order ($H1 > H2$).

The proximity switches are not included in the standard scope of delivery but are available as accessories.

(e) Port T compensates internal volume changes during switching. At delivery, the port is plugged with an air filter which, in a dry and clean factory environment, offers sufficient protection against dust etc. If, however, moisture or aggressive media can be sucked up, replace the filter by an unpressurized line which leads to a clean atmosphere (e.g. a clean, dry and unpressurized container).

(f) The surface of the housing parts is primed black, the front sides are treated with corrosion protection wax.