

## Technical Data Sheet TI-A11

# Safety Catcher KR Load direction compressive (to mounting surface)

General information, particularly regarding purpose, function, choosing right type and control is provided in "Technical Information TI-A10". Furthermore important practical advices are given in the "Operating Manual BA-A11".

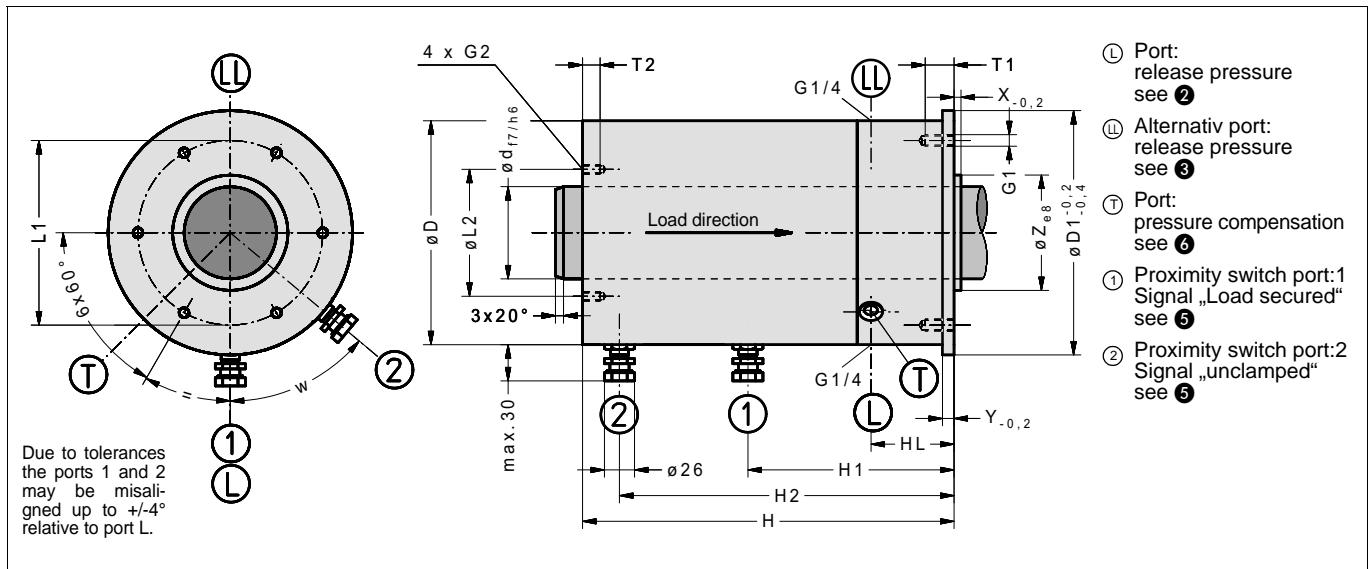


Fig. 1: Dimensions Safety Catcher KR (CAD-Files download at [www.sitema.com](http://www.sitema.com))

Type	Ident.-No.	d	M	D	D1	H	Y	Z	X	L1	G1	T1	L2	G2	T2	V	HL	H1	H2	w	Weight
		mm	kN	mm	mm	mm	mm	mm	mm	mm		mm	mm		mm	cm <sup>3</sup>	mm	mm	mm	mm	kg
<b>KR 25</b>	<b>KR 025 30</b>	25	10	71	81	152	5	40	3	56	M6	15	64	M5	12	3	48	84	130	0°	4
KR 28	KR 028 30	28	15	82	92	169	5	45	3	65	M8	15	73	M5	12	4	50	88	145	0°	6
KR 36	KR 036 30	36	33	106	123	211	8	52	3	80	M8	25	56	M6	12	5	62	141	<b>125</b>	<b>50°</b>	13
<b>KR 40</b>	<b>KR 040 30</b>	40	33	106	123	211	8	52	3	80	M8	20	56	M6	12	5	62	141	<b>125</b>	<b>50°</b>	13
KR 45	KR 045 30	45	40	120	<b>137</b>	230	8	60	3	100	M10	25	<b>66</b>	<b>M6</b>	<b>10</b>	9	64	114	<b>154</b>	0°	18
KR 50	KR 050 30	50	52	125	142	264	8	65	3	110	M10	25	<b>66</b>	<b>M6</b>	<b>12</b>	10	64	119	<b>160</b>	0°	24
<b>KR 56</b>	<b>KR 056 30</b>	56	67	140	156	262	8	70	3	115	M10	25	75	M6	12	11	72	<b>122</b>	<b>166</b>	0°	24
KR 63	KR 063 30	63	100	160	177	285	10	80	5	140	M10	25	85	M6	13	12	66	<b>125</b>	<b>164</b>	0°	38
KR 70	KR 070 30	70	107	172	188	302	10	90	3	140	M10	25	100	M8	16	15	73	129,5	<b>166</b>	0°	45
<b>KR 80</b>	<b>KR 080 30</b>	80	133	194	<b>212</b>	322	10	100	3	160	M10	25	110	M8	16	16	72	128	<b>176</b>	0°	62

**bold types = recommended standard, on stock**

Subject to modification without prior notice

① M is the admissible force the mass to be secured exerts on the clamping device. The holding (braking) force for dry running or mineral-oil wetted shafts is not less than 2 x M, but will not exceed 3,5 x M.

② Minimum operating pressure is 40 bar. In case a spring base is installed, for releasing without lifting the required pressure is 60 bar, conf. "Technical Information TI-A20". Admissible working pressure is 250 bar.

③ As supplied port LL is plugged by a plug screw. It may be used alternatively to port L and is useful for air-bleeding. It is generally recommended to install the Auto-Bleeder as described in the "Technical Information TI-Z10" at port LL (or L respectively).

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, except KR 25 and KR 28: M8x1 with nominal distance 1,5 mm.

For easier service, the proximity switch holders have a positive stop and are presetted when delivered from the factory.

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 a clean atmosphere (e.g. hydraulic tank).

## Technical Data Sheet TI-A11

# Safety Catcher K Load direction compressive (to mounting surface)

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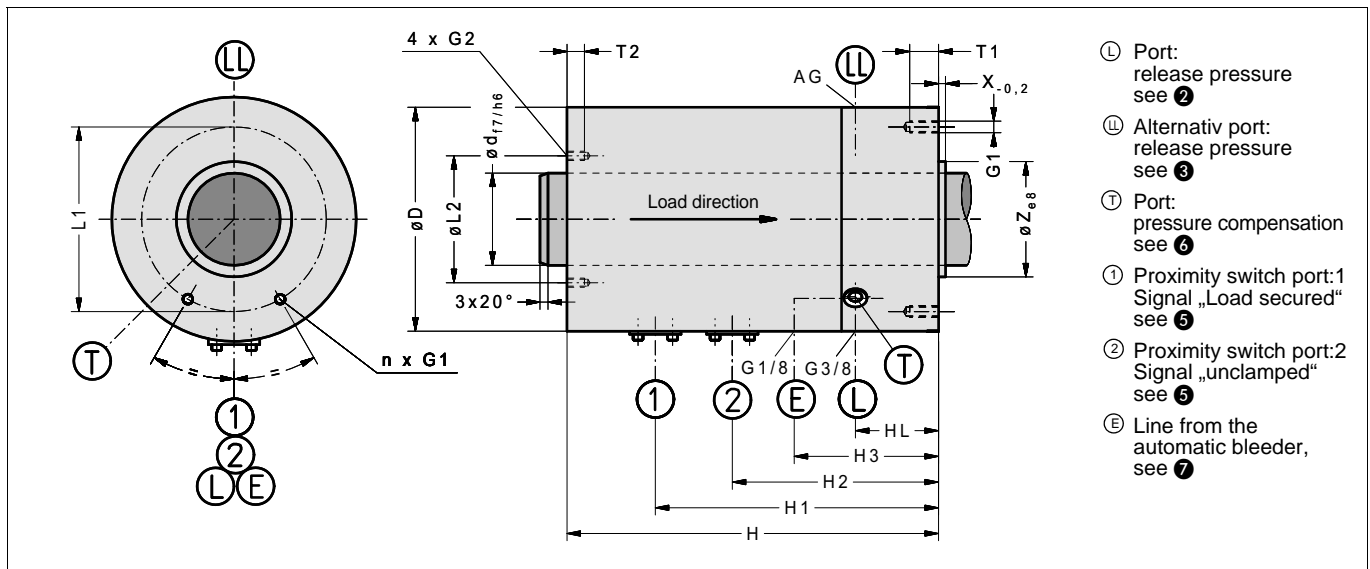


Fig. 2: Dimensions Safety Catcher K (CAD-Files download at [www.sitema.com](http://www.sitema.com))

Type	Ident.-No.	①										④								Weight
		d	M	D	H	Z	X	L1	n	G1	T1	L2	G2	T2	V	HL	H1	H2	H3	
		mm	kN	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	cm <sup>3</sup>	mm	mm	mm	mm	kg
K 90	K 090 30	90	160	218	284	110	3	170	6	M12	25	-	-	-	18	20	188	138	<b>105</b>	<b>65</b>
<b>K 100</b>	<b>K 100 30</b>	100	220	240	310	120	3	160	6	M12	25	135	M8	16	18	22	230	180	<b>105</b>	<b>85</b>
K 110	K 110 30	110	270	240	335	130	4	200	4	M16	30	-	-	<b>24</b>	24	192	142	<b>105</b>	<b>105</b>	
<b>K 125</b>	<b>K 125 30</b>	125	330	270	356	150	4	220	4	M16	30	160	M8	16	24	22	208	158	<b>100</b>	<b>119</b>
<b>K 140</b>	<b>K 140 30</b>	140	450	320	390	170	5	250	4	M16	30	180	M8	16	24	22	232,5	182,5	<b>102</b>	<b>189</b>
K 160	K 160 30	160	<b>700</b>	360	505	190	5	300	4	M16	30	210	M8	16	<b>36</b>	<b>25</b>	<b>138</b>	<b>88</b>	<b>102</b>	<b>314</b>
K 180	K 180 30	180	750	410	460	220	6	330	4	M20	40	226	M8	16	<b>36</b>	19	335	285	<b>111</b>	<b>376</b>
K 200	K 200 30	200	850	448	533	240	6	340	8	M20	40	252	M8	16	<b>36</b>	19	334	279	<b>111</b>	<b>521</b>

**bold types = recommended standard, on stock**

Subject to modification without prior notice

- ① M is the admissible force the mass to be secured exerts on the clamping device. The holding (braking) force for dry running or mineral-oil wetted shafts is not less than 2 x M, but will not exceed 3,5 x M.
- ② Minimum operating pressure is 40 bar. In case a spring base is installed, for releasing without lifting the required pressure is 60 bar, conf. "Technical Information TI-A20". Admissible working pressure is 250 bar.
- ③ As supplied, port LL is plugged by a plug screw. It may be used as an alternative to port L and is useful for air-bleeding.
- 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 a clean atmosphere (e.g. hydraulic tank).
- ⑦ For air-bleeding, an automatic air-bleeder is integrated.  
Due to the permanent bleeding, a small quantity of oil-air mix will escape from port E. Therefore, a connection to the tank is necessary. (For further information see "Technical Information TI-Z10")