Technical Data Sheet TI-S12
Safety Locks series KRGP

Load direction compressive (to mounting surface)

General information, particularly regarding purpose, function, choosing the right type, attachment and control is provided in *"Technical Information TI-S10"*.

Further important practical advice is given in *"Operating Manual BA-S12"*.

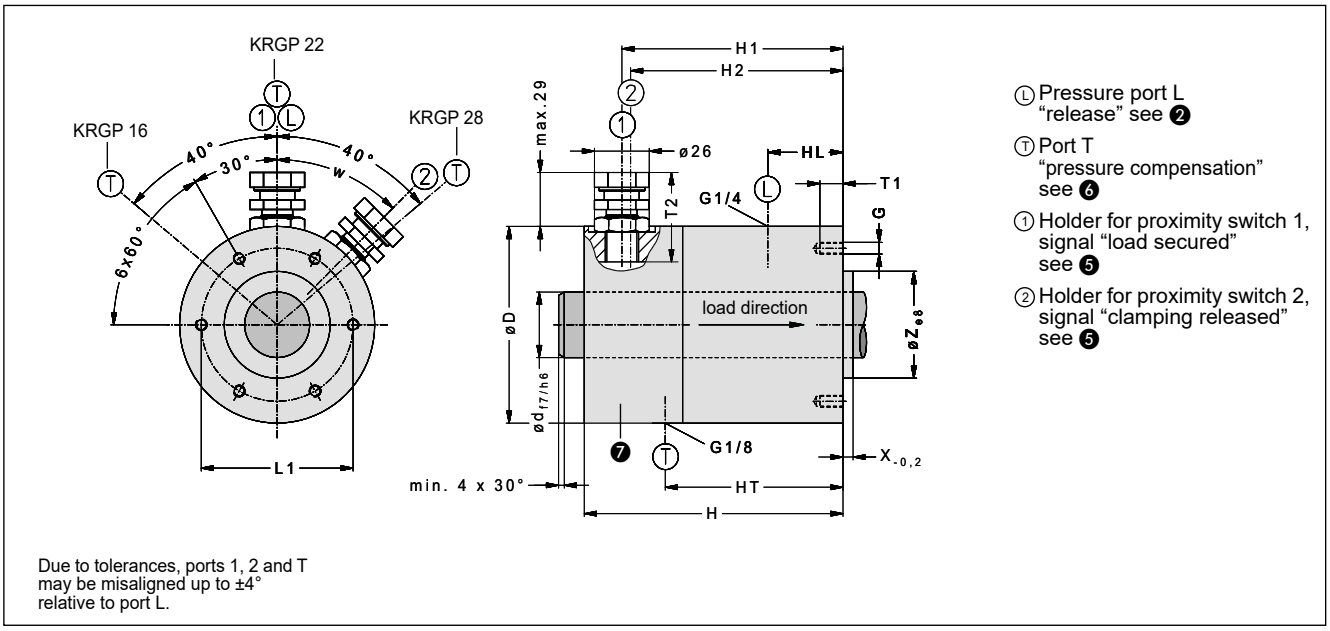

Fig. 1: Dimensions Safety Lock KRGP (download CAD files from www.sitema.com)

			❶	❸									❺	❹					
Type	**ID no.**	**d**	**M**	**F6**	**H**	**D**	**Z**	**X**	**w**	**L1**	**G**	**T1**	**T2**	**V**	**HL**	**HT**	**H1**	**H2**	**Weight**
	(order no.)	*mm*	*kN*	*kN*	*mm*	*mm*	*mm*	*mm*		*mm*		*mm*	*mm*	*cm³*	*mm*	*mm*	*mm*	*mm*	*kg*
KRGP 16	KRGP 016 20	16	5	5	109	82	35	5	50°	55	M6	15	34	10	19	109	91	88	1.5
KRGP 22	KRGP 022 20	22	10	3.5	132	102	40	6	40°	60	M6	15	45	15	22	81	110	115	3
KRGP 28	KRGP 028 20	28	20	11	166	155	50	6	40°	80	M8	20	45	40	43	118	141	146	7

Subject to modification without prior notice

❶ M is the admissible load the mass to be secured exerts on the Safety Lock. The holding force for dry or hydraulic-oil wetted rods is at least 2 x M. Forces exceeding 2 x M may cause damages, because the rod will be totally blocked also in the case of an overload and will not slip.

❷ The necessary pressure to keep the clamping released is 3.5 bar. (Exception: In case a spring base is installed, the required pressure for releasing without lifting is 4.5 bar, see *"Technical Data Sheet TI-B20"*.) The admissible operating pressure is 10 bar.

❸ The Safety Lock has the advantage that it does not release under load. The Safety Lock can normally be released in this case only if release pressure is applied and the load is simultaneously lifted, i.e. if the load has already been transferred safely elsewhere. To ensure this safety advantage, the load must have a minimum value during operation. This minimum value depends on the operating pressure which is applied. At 6 bar, the minimum value is F6.
If the load in the application is less than F6 (at 6 bar), the clamping can be released by only applying pressure and not lifting the load.
For other pressure levels, please contact SITEMA.

❹ Pneumatic operating volume

❺ Proximity switch holders are provided for standard inductive proximity switches (M12 x 1, nominal switching distance of 2 mm, flush mountable, NO (normally open)). The dimension T2 indicates how deep the proxim-ity switch immerses in the Safety Locks KRGP measured from the holder's top.
For easier service, the proximity switch holders have a depth stop and are pre-adjusted when delivered from the factory. The switches only need to be inserted to the stop and then clamped.
The proximity switches are not included in the standard scope of delivery but are available as accessories.

❻ Internal volume changes during switching are compensated at port T. It 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 are present, a pressureless hose instead of the filter must be installed to connect the Safety Lock with clean atmosphere (e.g. a clean pressureless container).

❼ The aluminum surfaces of the housing parts are anodized.