

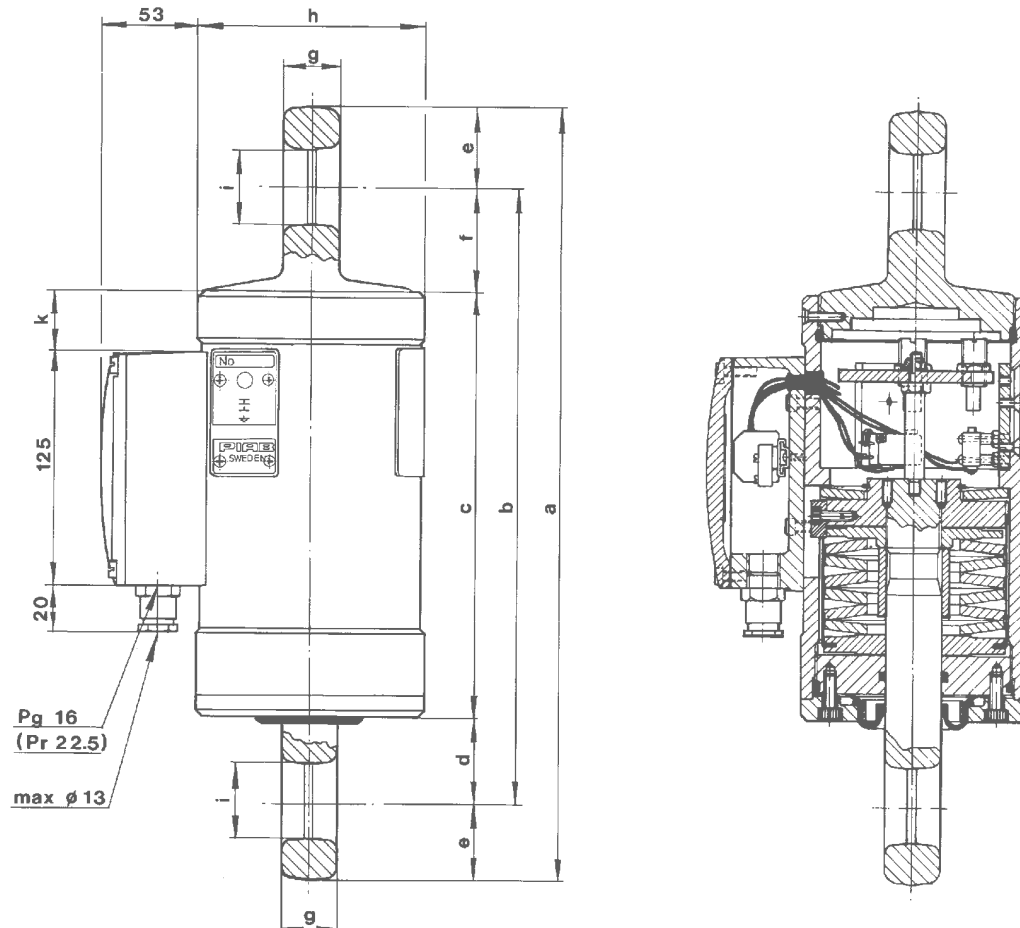
## Load Guard Datasheet

### Load Guard

The PIAB Load Guard is intended for use as an overload guard in cranes and lifts, for the automatic tensing of belt conveyors and for other automatic power-sensing/load control.

#### Function:

The movement of the pull rod operates the microswitches through springloaded contact points. The power absorbing element consists of specially made Belleville washers dimensioned to resist fatigue. The spring washers cannot be overloaded.

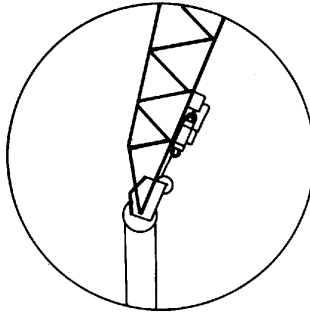
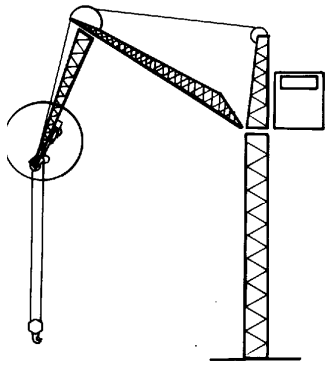


Type/ No. of switches	Capacity kg	Dead Weight kg	Measurements mm									
			a	b	c	d	e	f	g	h	i	k
IMB/1-3	1000	9.5	395	327	234	45	34	48	25	86	33	29
IM/1-3	2000											
IO/1-3	3000											
IQ/1-5	5000	17.5	413	329	230	45	42	55	30	122	40	35
IS/1-5	10000	29.5	495	385	260	60	55	65	45	149	56	40
IG/1-5	25000	81	675	505	300	102	85	103	70	228	81	64
IE/1-5	50000	129	831	631	387	123	100	121	95	234	115	74

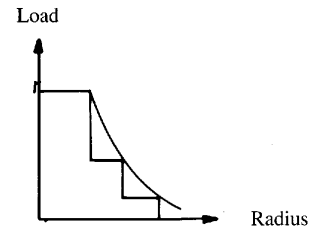
The pull rod movement at full load is approx 10mm

## Applications for the PIAB Load Guard

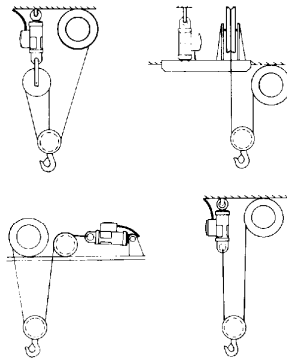
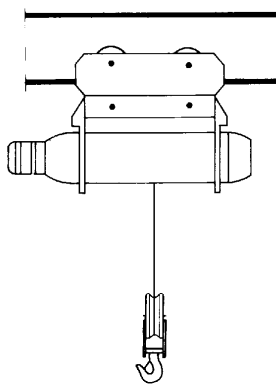
**The PIAB Load Guard used as an overload guard and moment controller in tower cranes.**



In this example a PIAB Load Guard with three microswitches is used. Switch values in accordance with the curve below.

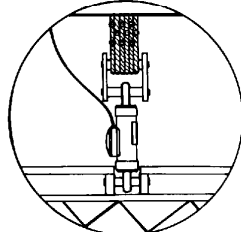
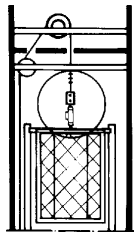


**The PIAB Load Guard as an overload guard for overhead travelling cranes.**



The load guard is generally adjusted to prevent the hoisting motion at max. load. It can also be used to give a warning signal at e.g. 90% of the max. load and then stop at max. load. Lowering of the load can always take place.

**The PIAB Load Guard as an overload guard for lifts.**



The load guard cuts out automatically at overload. The lift cannot start until the reason for the overload has been removed from the lift car.

A visual and/or audio signal may be used to indicate the overload condition.