

# KAKKU SPINDLE TYPE ROTARY GEARED LIMIT SWITCHES

## TYPE KRLS – 401 to KRLS – 404

### SPECIAL FEATURES

- Double break contacts with high quality silver cadmium oxide contact tips having arc-retarding and anti-welding.
- Provided with specially treated oil resistant rubber gaskets at all the joints in the switch to make it completely dust-proof.
- Cams and contact blocks are of high grade phenolic fibrous moulding material having excellent electrical and mechanical properties.
- Resists extreme shock & vibratory conditions.
- Ease of maintenance, reliability of performance, flexible contact sequence and long-life.

### TECHNICAL DATA

Ambient temperature	: 55°C.
Mounting Arrangement	: Surface mounting.
Housing	: Provided with Cast Iron detachable Cast Aluminium cover
Enclosure category	: As per IP-55 of IS : 2147 – 1962.
Cable entry	: 2 Nos. 19mm conduit threaded entry.
Terminals	: Suitable for conductor size 2.5mm <sup>2</sup> .
No. of contacts (Electrically separated)	: 2, 4 or 6
Rated duty	: 600 operation per hour.

### APPLICATION

KAKKU Spindle Type Rotary Geared Limit Switches Type KRLS-401 to KRLS-404 are used in control circuits of cranes, hoists, winches and other drive mechanisms where two way travel of the mechanism is to be limited within certain well defined predetermined positions. These are suitable for coupling directly with the motors, reduction gear shafts, rope drums etc.

### OPTIONAL EXTRAS

- Enclosure IP-65.
- Epoxy paint for special applications.
- Suitable base plate at bottom to match any mounting dimension. (furnish drawing).
- Contacts with thermal rating of 40 Amps
- Any other gear ratio.

### RATINGS

Rated voltage	Permissible continuous current	Making current upto 500V AC	Breaking current at inductive load (Amps.)			
			DC			AC upto 500V
			110V	220V	440V	
Upto 500V AC	10A	50A	0.5	0.3	0.1	10

### SELECTION CHART (WITH STANDARD GEARS)

Type	No. of contacts	Gear ratios
KRLS – 401	2	1:1, 1:5, 1:10, 1:20,
KRLS – 402	4	1:30, 1:50, 1:75
KRLS – 403	6	
KRLS – 404	4	1 : 100, 1:120

### ORDERING INFORMATION

- Give KAKKU type and gear ratio.
- Contact opening and closing sequence for each of the contacts.
- Specify optional extras if any.
- Specify non-standard gear ratios if required.

TYPE KRLS – 401 to KRLS – 403  
Dimensions (mm)

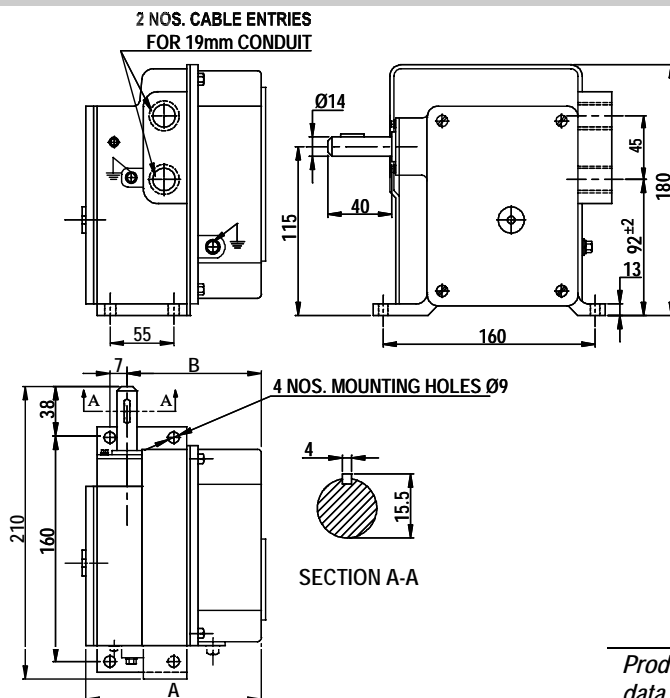


Fig. SPINDLE TYPE ROTARY GEARED LIMIT SWITCHES

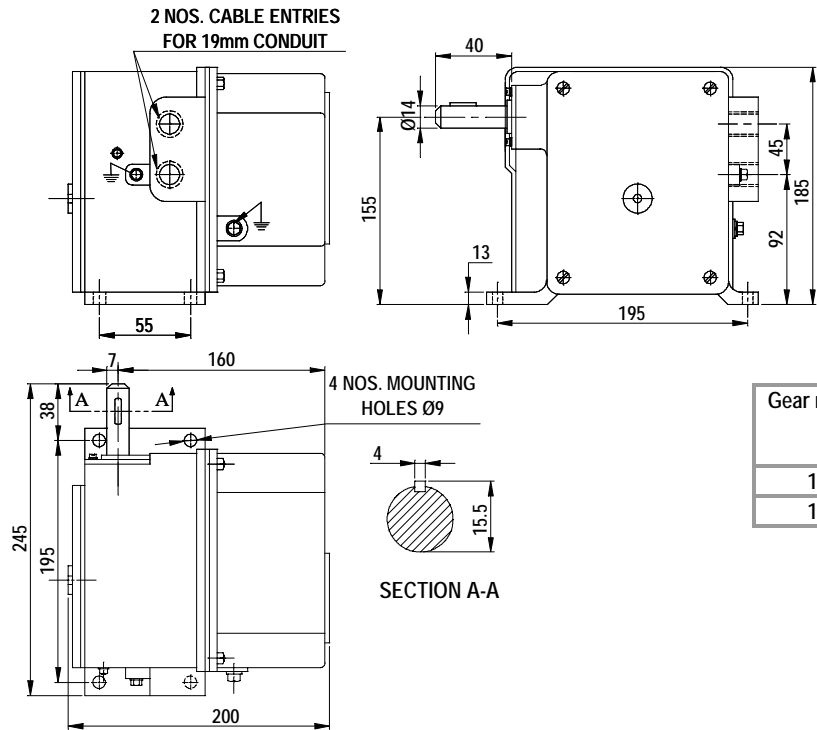
Type	No. of contacts	A	B
KRLS - 401	2	166	128
KRLS - 402	4	195	160
KRLS - 403	6	278	243

Gear ratios	Max. No. of spindle revolutions for cam adjustment.
1 : 1	0.8
1 : 5	4.0
1 : 10	8.0
1 : 20	16
1 : 30	24
1 : 50	40
1 : 75	60

Product improvement is a continuous process at KAKKU. Hence data given in this catalogue is subject to revision without notice.



Symbol Of Reliability



Gear ratios	Max. No. of spindle revolutions for cam adjustment.
1 : 100	80
1 : 120	96