

Industrial Automation



Company's AN OVERVIEW

Keltronic Dyna, one of the leading manufacturers of low voltage electrical components. Since 1995, we are continuously growing towards manufacturing various engineering products with dedicated strategies & research, making our brand highly competitive in the national and international market.

Keltronic Dyna, an Indian company with Indian ethos, is poised to expand its product range further to offer comprehensive solutions for discerning customers allied with competitive pricing, quality deliverance and total customer satisfaction. Through our strong base in the market, the organization has made steady progress in successfully developing and marketing various switchgear products; the focus has always been quality products and manufacturing processes with a difference.

We offer a unique range of products and systems that deliver end-to-end solutions, and comprise the core technology capabilities for the manufacturing and processing industry.

With state-of-the-art tool design, development and manufacturing capabilities and emphasis on quality have helped the company achieve benchmarks for its products and services.

We strongly adherence to the quality management of our products. Our whole range of products strives to give a good competitive sense through its Purchase, Production, Development, Quality Control, Sales, Personnel, and Maintenance.

Keltronic Dyna, is committed to achieving a leadership position in Switchgear & Automation Industry.

With strong control over quality, we are continuously approaching towards submissive standards. We are giving the world a better outlook by enhancing the technique every single day. Our key focus is always to give a strong strategic force in the market so that our products provide an impulsive threshold in the market.

Product CONTENT

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Limit Switch



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Waterproof Limit Switch



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KDA
Limit Switch

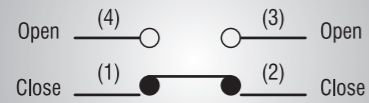


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Features

- Double circuit type of limit switch
- Highly rigid construction, consists of intensive plastic and aluminum cast (Head and cover snugly fit in box)
- Small volume, water-proof and oil-proof construction
- Built-in basic switch with double spring mechanism, longer mechanical life
- Smooth operation with greater OT
- Easy-to-wire circuit opening design
- Wide variety of actuators, easily use

Contact Form



Ratings

Rated Voltage	Non-inductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	5	5	1.5	0.7	3	3	2	1
250V AC	5	5	1	0.5	3	3	1.5	0.8
8V DC	5	5	3	3	5	4	3	3
14V DC	5	5	3	3	4	4	3	3
30V DC	5	5	3	3	4	4	3	3
125V DC	0.4	0.4						
250V DC	0.2	0.2						
Inrush Current	N.C.: Below 24A, N.O.: Below 12A							

OF: Operating Force
RF: Releasing Force
PT: Pre-Travel
OT: Over Travel

MD: Movement Differential
TT: Total Travel
OP: Operating Position

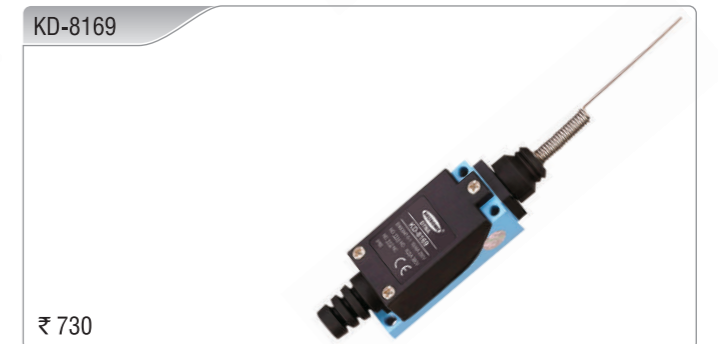
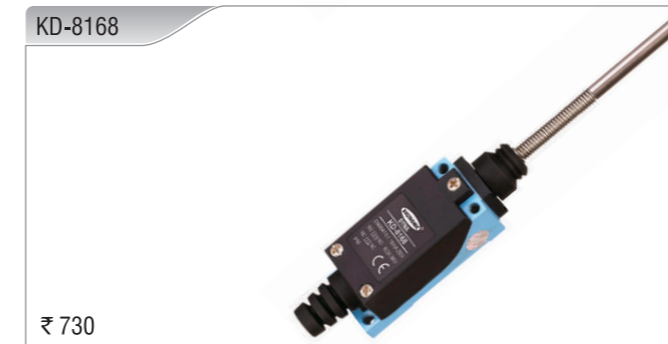
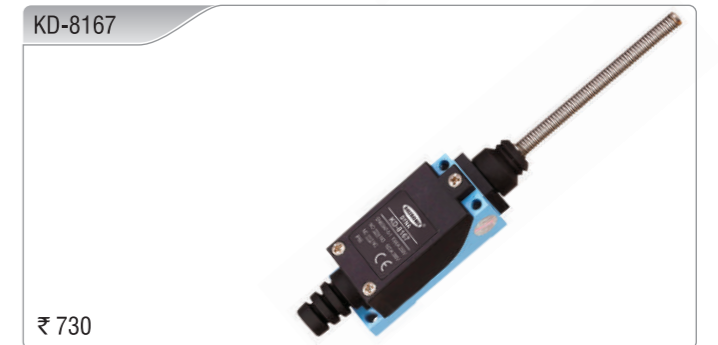
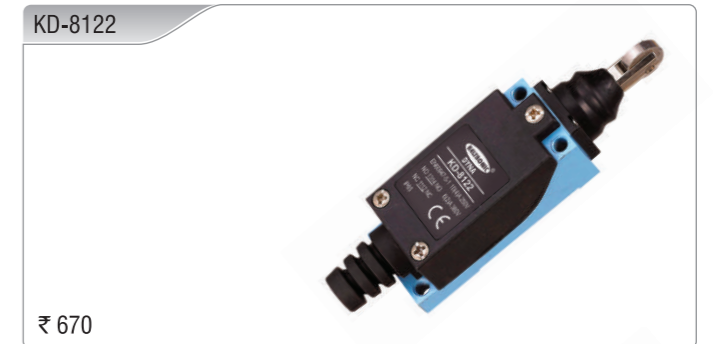
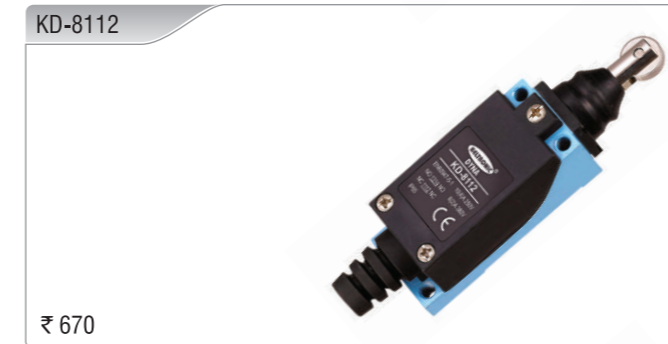
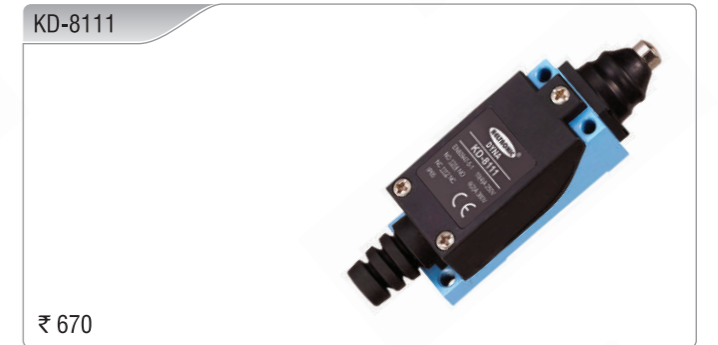
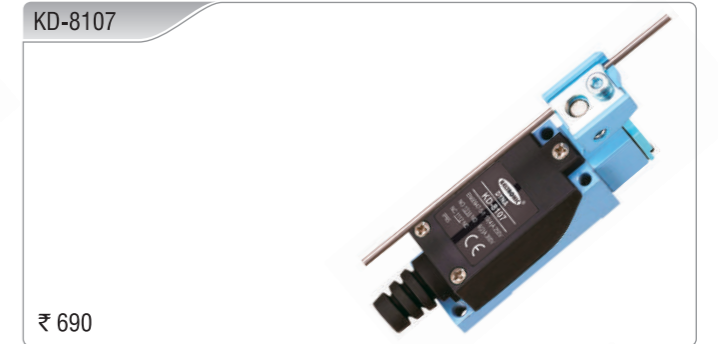
Characteristics

Operation Speed	0.5mm - 50cm/sec
Operating Frequency	Mechanical: 120 operations/min. Electrical: 30 operations/min.
Contact Resistance	25mΩ max. (initial value)
Insulation Resistance	100mΩ min. (below 500V DC)
Dielectric Strength	1000V AC, 50/60Hz for 1 minute between terminals of the same polarity
	1500V AC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500V AC, 50/60Hz for 1 minute between each terminal and ground
Vibration	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/sec ² (about 100G'S) Malfunction: 300m/sec ² (about 30G'S)
Ambient Temperature	-5~+65°C (with no icing)
Humidity	<95% RH
Life	Mechanical: 10,000,000 operations above Electrical: 500,000 operations above
Weight	About 130 to 190g
Degree of Protection	IEC specification: IP65

Operating Characteristics

Model	KD-8104	KD-8107	KD-8108	KD-8111	KD-8112	KD-8122	KD-8166	KD-8167	KD-8168	KD-8169
OF (Max.)	750g	750g	750g	900g	900g	900g	150g	150g	150g	150g
RF (Min.)	100g	100g	100g	150g	150g	150g	-	-	-	-
PT (Max.)	20°	20°	20°	1.5mm	1.5mm	1.5mm	30mm	30mm	30mm	30mm
OT (Min.)	50°	50°	50°	4mm	4mm	4mm	-	-	-	-
MD (Max.)	12°	12°	12°	1mm	1mm	1mm	-	-	-	-
TT (Min.)	95°	95°	95°	5.5mm	5.5mm	5.5mm	-	-	-	-
OP	-	-	-	26±0.8mm	37±0.8mm	37±0.8mm	-	-	-	-

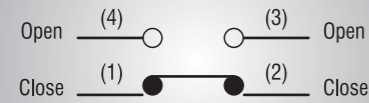
Product Appearance



Features ▶

- Double-circuit type limit switch
- Strong aluminum cast outer shell
- High mechanical strength
- Structure preventing oil, water and pressure
- Installed indicating plate with setting position, so it is easy to maintain
- Various of actuators is taken convenience for using
- Built-in double-spring contact stand, so it has long mechanical life
- Standard size configuration M20 x 1.5 for cable gland

Contact Form ▶



Ratings

Rated Voltage	Non-inductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	10	10	3	1.5	10	10	5	2
250V AC	5	5	2	1	5	5	3	1
480V AC	3	3	1.5	0.8	3	3	1.5	0.8
600V AC	1	1	1	0.5	1.5	1.5	1	0.5
8V DC	10	10	6	3	10	10	6	6
14V DC	10	10	6	3	10	10	6	6
30V DC	6	6	4	3	6	6	4	4
125V DC	0.8	0.8	0.2	0.2	0.8	0.8	0.2	0.2
250V DC	0.4	0.4	0.1	0.1	0.4	0.4	0.1	0.1
Surge Current	NC: Below 30A, NO: Below 20A							

OF: Operating Force
RF: Releasing Force
PT: Pre-Travel
OT: Over Travel

MD: Movement Differential
TF: Total Force
TT: Total Tavel
OP: Operating Position

Characteristics

Operation Speed	1mm - 2m/sec
Operating Frequency	Mechanical: 120 operations/min. Electrical: 30 operations/min.
Contact Resistance	15mΩ max. (initial value)
Insulation Resistance	100mΩ min. (at 500V DC)
Dielectric Strength	1000V AC, 50/60Hz for 1 minute between terminals of the same polarity
	1500V AC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
Vibration	1500V AC, 50/60Hz for 1 minute between each terminal and ground
	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/sec ² (about 100G'S) Malfunction: 300m/sec ² (about 30G'S)
Ambient Temperature	-10~+80°C (with no icing)
Humidity	<95% RH
Life	Mechanical: 15,000,000 operations above (under rated OT) Electrical: 500,000 operations above
Weight	About 275g
Degree of Protection	IEC specification: IP66

Operating Characteristics

Model	KDLCA2-2	KDLCA12-2Q	KDLCL	KDLD	KDLD1	KDLD2	KDLD3	KDLNJ	KDLNJ30	KDLCA32-41
OF (Max.)	1360g	1360g	142g	2720g	2720g	2720g	2720g	150g	80g	1200g
RF (Min.)	227g	227g	28g	910g	910g	910g	910g	-	-	-
PT (Max.)	20°	20°	20°	1.7mm	1.7mm	1.7mm	1.7mm	28mm	28mm	55°
OT (Min.)	30°	30°	30°	6.4mm	5.6mm	5.6mm	5.6mm	-	-	35°
MD (Max.)	12°	12°	12°	1mm	1mm	1mm	1mm	-	-	-
TF (Max.)	2720g	2720g	200g	-	2720g	-	2720g	-	-	-
TT (Min.)	50°	50°	50°	OP:34±2.8mm	6.5±0.8mm	6.5±0.8mm	9±0.8mm	-	-	OP:90±10°

Product Appearance ▶

KDLCA2-2



₹ 1,380

KDLCA12-2Q



₹ 1,380

KDLCL



₹ 1,380

KDLD



₹ 1,320

KDLD1



₹ 1,390

KDLD2



₹ 1,390

KDLD3



₹ 1,390

KDLNJ



₹ 1,460

KDLNJ30



₹ 1,460

KDLCA32-41



₹ 1,460

Features

- Various of actuators, action position is adjustable (such as KM-401)
- High switch on and off capacity (15A)
- High accuracy
- Wide range of operation speed
- Each type of KM series has solder terminal, screw terminal and tab terminal are selective
- Add A for solder terminal, add C for tab terminal, blank for screw terminal

Contact Form



Ratings

Rated Voltage	Non-inductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	15	15	3	1.5	15	15	5	2.5
250V AC	15	15	2.5	1.25	15	15	3	1.5
500V AC	3	3	1.5	0.75	2.5	2.5	1.5	0.75
8V DC	15	15	3	1.5	15	15	5	2.5
14V DC	15	15	3	1.5	10	10	5	2.5
30V DC	6(2)	6(2)	3	1.5	5	5	5	2.5
125V DC	0.4	0.4	0.4	0.4	0.05	0.05	0.05	0.05
250V DC	0.2	0.2	0.2	0.2	0.03	0.03	0.03	0.03
Inrush Current	NC: 30A max., NO: 20A max.							

OF: Operating Force
RF: Releasing Force
PT: Pre-Travel
OT: Over Travel

MD: Movement Differential
FP: Free Position
OP: Operating Position

Characteristics

Operation Speed	0.01mm - 1m/sec
Operating Frequency	Mechanical: 240 operations/min. Electrical: 20 operations/min.
Contact Resistance	15mΩ max. (initial value)
Insulation Resistance	100mΩ min. (at 500V DC)
Dielectric Strength	1000V AC, 50/60Hz for 1 minute between terminals of the same polarity
	1500V AC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
Vibration	1500V AC, 50/60Hz for 1 minute between each terminal and ground
	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/sec ² (about 100G'S) Malfunction: 300m/sec ² (about 30G'S)
Ambient Temperature	General purpose type: -25°C to +80°C Sealed type: -15°C to +80°C
Humidity	General purpose type: 85% RH max. Sealed type: 95% RH max.
Life	Mechanical: 10,000,000 operations above Electrical: 500,000 operations above
Weight	About 22 to 58g

Operating Characteristics

Model	KM-401	KM-402	KM-403	KM-404	KM-405	KM-443	KM-600	KM-601	KM-603	KM-605	KM-606	KM-607	KM-608	KM-609
OF (Max.)	70g	160g	100g	160g	10g	160g	350g	300g	300g	350g	350g	350g	350g	350g
RF (Min.)	14g	28g	22g	42g	3g	42g	114g	50g	50g	114g	114g	114g	114g	114g
PT (Max.)	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm
OT (Min.)	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm
MD (Max.)	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm
FP (Max.)	28.2mm	24.8mm	36.5mm	32.5mm	-	43.6mm	-	20.6mm	31.8mm	-	-	-	-	-
OP	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.8	43.1±0.8	15.9±0.4	17.4±0.8	28.6±0.8	28.2±0.5	21.5±0.5	21.8±0.8	33.4±1.2	33.4±1.2

Product Appearance

<p>KM-401</p> <p>₹ 270</p>	<p>KM-402</p> <p>₹ 270</p>	<p>KM-403</p> <p>Optional plastic idler wheel</p> <p>₹ 285</p>
<p>KM-404</p> <p>Optional plastic idler wheel</p> <p>₹ 270</p>	<p>KM-405</p> <p>₹ 390</p>	
<p>KM-443</p> <p>₹ 390</p>	<p>KM-600</p> <p>₹ 265</p>	<p>KM-601</p> <p>₹ 390</p>
<p>KM-603</p> <p>₹ 390</p>	<p>KM-605</p> <p>₹ 265</p>	<p>KM-606</p> <p>₹ 265</p>
<p>KM-607</p> <p>₹ 360</p>	<p>KM-608</p> <p>₹ 360</p>	<p>KM-609</p> <p>₹ 360</p>

Features ▶

- Various of actuators, the operation position is adjustable (such as KD-721)
- Outer shell covered with intensive plastic, water-proof and oil-proof. The mechanical strength is better than KM type of micro switch, bear hitting

Contact Form ▶



Ratings

Rated Voltage	Non-inductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	10	10	3	1.5	10	10	5	2.5
250V AC	10	10	2.5	1.25	10	10	3	1.5
500V AC	3	3	1.5	0.75	2.5	2.5	1.5	0.75
8V DC	10	10	3	1.5	6	6	6	5
14V DC	10	10	3	1.5	6	6	6	5
30V DC	8	8	3	1.5	6	6	5	2.5
125V DC	0.5	0.5	0.4	0.4	0.05	0.05	0.05	0.05
250V DC	0.25	0.25	0.2	0.2	0.03	0.03	0.03	0.03

Characteristics

Operation Speed	0.01mm - 50cm/sec
Operating Frequency	Mechanical: 120 operations/min. Electrical: 30 operations/min.
Contact Resistance	15mΩ max. (initial value)
Insulation Resistance	100mΩ min. (at 500V DC)
Dielectric Strength	1000V AC, 50/60Hz for 1 minute between terminals of the same polarity
	1500V AC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
Vibration	1500V AC, 50/60Hz for 1 minute between each terminal and ground
	Action: 10-55Hz, 1.5mm pairs swing
Shock	Mechanical durable: 1,000m/sec ² (about 100G'S) Malfunction: 300m/sec ² (about 30G'S)
Ambient Temperature	-10~+80°C (with no icing)
Humidity	<95% RH
Life	Mechanical: 10,000,000 operations above (under rated OT) Electrical: 500,000 operations above
Weight	60g
Degree of Protection	IP40

OF: Operating Force
RF: Releasing Force
PT: Pre-Travel
OT: Over Travel

MD: Movement Differential
OP: Operating Position
FP: Free Position

Operating Characteristics

Model	KD-810	KD-811	KD-812	KD-820	KD-821	KD-841	KD-844	KD-866
OF (Max.)	600g	600g	600g	150g	180g	240g	280g	120g
RF (Min.)	100g	100g	100g	40g	50g	80g	100g	-
PT (Max.)	2.0mm	2.0mm	2.0mm	13.5mm	11.0mm	6.5mm	6.5mm	250mm
OT (Min.)	6.0mm	6.0mm	6.0mm	4.0mm	3.0mm	2.0mm	2.0mm	11mm
MD (Max.)	0.8mm	0.8mm	0.8mm	3.2mm	2.4mm	1.5mm	1.5mm	-
OP	21.8±1.2mm	33.3±1.2mm	33.3±1.2mm	25±1mm	40±1mm	40±1mm	50±1.2mm	-
FP	-	-	-	35mm	-	46mm	56mm	-

Product Appearance ▶



Features

- High accuracy of action position
- Good shock resistance, maximum 1000m/sec²
- Good heat resistance, maximum operating temperature is T105°C
- High-strength shell, when mounting, the plastic shell can withstand torsional moment of 6kgf.cm without break

Contact Form



Product Appearance



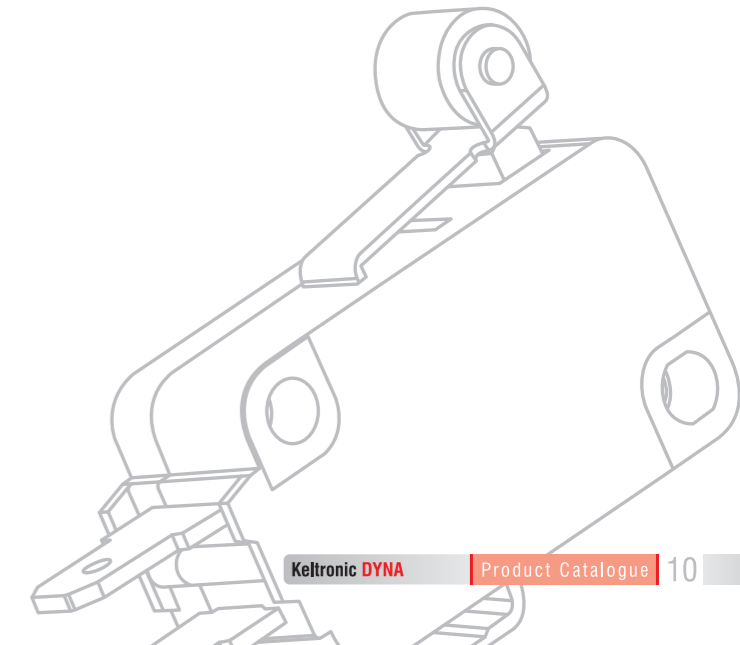
Rated Ampere	Rated Voltage	Non-inductive Load (A)				Inductive Load (A)				Motor Current
		Resistance Load		Lamp Load		Inductive Load		Inductive Load		
		NC	NO	NC	NO	NC	NO	NC	NO	
10A	250V AC	10	1.5	6	2	24 max.				
	8V DC	10	3	6	3					
	30V DC	6	3	6	3					
	125V DC	0.3	0.1	0.6	0.1					
	250V DC	0.3	0.05	0.3	0.05					
16A	250V AC	16	2	10	3	40 max.				
	8V DC	16	4	10	6					
	30V DC	10	4	10	4					
	125V DC	0.6	0.1	0.6	0.1					
	250V DC	0.3	0.05	0.3	0.05					
21A	250V AC	21	3	12	4	50 max.				
	8V DC	21	5	12	7					
	30V DC	14	5	12	5					
	125V DC	0.6	0.1	0.6	0.1					
	250V DC	0.3	0.05	0.3	0.05					

Characteristics		V-10	V-16	V-21
Type				
Operation Speed		0.01mm - 1m/sec		
Operating Frequency		Mechanical: 120 operations/min. Electrical: 30 operations/min.		
Contact Resistance		15mΩ max. (initial value)		
Insulation Resistance		100mΩ min. (at 500V DC)		
Withstand Voltage	Non-Continuous Terminals	1000V AC, 50/60Hz		
	Current-Carrying and Non-Current-Carrying Metal Parts, Between Terminal and Earthing	1500V AC, 50/60Hz	2000V AC, 50/60Hz	
Vibration	Misoperation	10-55Hz, 1.5mm pairs swing		
Shock	Durable	1000m/s ² (100G)		
	Misoperation	200m/s ² (100G)	300m/s ² (100G)	
Life	Mechanical	1000		
	Electrical	30	10	
Temperature		-10~ +80°C		
Humidity		85% RH (+5~ +35°C)		

OF: Operating Force
RF: Releasing Force
PT: Pre-Travel
OT: Over Travel
MD: Movement Differential
OP: Operating Position

Operating Characteristics

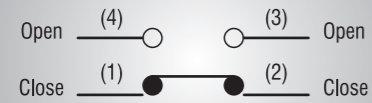
Model	K-101D	K-102D	K-103D	K-104D	K-105D	K-106D	K-107D
OF (Max.)	200g	200g	125g	65g	125g	240g	125g
RF (Min.)	50g	50g	14g	6g	14g	50g	14g
PT (Max.)	1.2mm	1.6mm	4.0mm	9.0mm	4.0mm	1.6mm	4.0mm
OT (Min.)	1.0mm	0.8mm	1.6mm	2.0mm	1.6mm	0.8mm	1.6mm
MD (Max.)	0.4mm	0.6mm	1.5mm	2.8mm	1.5mm	0.6mm	1.5mm
OP	14.7±0.4mm	15.2±0.5mm	15.2±1.2mm	15.2+2.6, -3.2mm	18.7±1.2mm	20.7±0.6mm	20.7±1.2mm



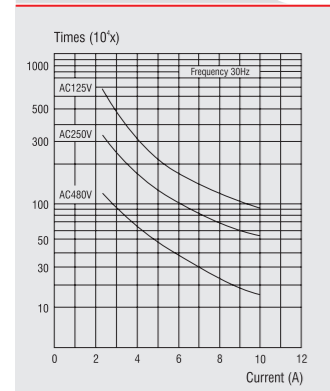
Features ▶

- Economical & plastic type
- Stainless steel roller, punch and spring
- Swing amplitude, extra large ±95°
- Standard size configuration M20x1.5 for cable gland

Contact Form ▶



Electrical Life



- OF: Operating Force
- RF: Releasing Force
- PT: Pre-Travel
- TP: Tripping Position
- MD: Movement Differential
- OT: Over Travel
- TT: Total Travel
- RI: Rotary Indexing

Characteristics

Double Break Mechanism	INO + INC Force Break Snap Action
Rated Voltage / Current	10(4)A, 125, 250V AC / 6(2)A, 380V AC for Inductance Load, Cosθ=0.4
Contact Resistance	25mΩ max. (initial value)
Insulation Resistance	100mΩ min. (at 500V DC)
Dielectric Strength	1000V AC, 50/60 HZ for 1 minute between terminals of the same polarity 1500V AC, 50/60 HZ for 1 minute between current-carrying and non-current-carrying metal parts 1500V AC, 50/60 HZ for 1 minute between each terminal and ground
Electrical Life	500,000 at 10A 250V AC Resistive
Mechanical Life	10,000,000 operations min. (under rated conditions)
Operating Speed	5mm/sec to 0.5m/sec
Degree of Protection	IP65
Ambient Temperature Rised	Max. 30°C over ambient temperature at rated voltage/current
Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5°C ~ +65°C (with no icing)
Storage Temperature	-5°C ~ +65°C (with no icing)
Ambient Operating Humidity	95% Rh max.
Shock Resistance	Mechanical durable: 1000m/sec ² min. Malfunction: 300m/sec ² min.
Vibration Frequency	Malfunction: 10 to 55Hz 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf/cm
Other Screw Torsional Force	Cover 12-14 kgf/cm Head 8-9 kgf/cm Mounting 50-60 kgf/cm
Bare Wire Diameter	Ø2 max.
Cable Diameter	Ø12 max.

Operating Characteristics

Model	KDS-101	KDS-103	KDS-111	KDS-121	KDS-127	KDS-131	KDS-161	KDS-171	KDS-181	KDS-191
OF (Max.)	700g	750g	750g	500g	700g	500g/cm	100g	100g	100g	500g/cm
RF (Min.)	200g	100g	100g	100g/cm	200g	100g/cm	40g	40g	40g	100g/cm
PT (Max.)	1.8mm	1.8mm	1.8mm	20°	1.8mm	20°	30mm	30mm	30mm	20°
TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°
MD (Max.)	1.2mm	1.2mm	1.2mm	10°	1.2mm	10°	14°	14°	14°	10°
OT (Min.)	4.0mm	4.0mm	4.0mm	75°	4.0mm	75°	20mm	20mm	20mm	75°
TT (Min.)	5.8mm	5.8mm	5.8mm	95°	5.8mm	95°	50mm	50mm	50mm	95°
RI	-	-	-	22.5°	-	22.5°	-	-	-	22.5°

Product Appearance ▶







Features

- DPDS limit switch for multiple applications
- Rugged aluminum alloy die cast housing
- High mechanical strength
- Oil resistance, waterproof and dustproof structure

Contact Form



Product Appearance

<p>KZ-101</p>  <p>₹ 2,600</p>	<p>KZ-102</p>  <p>₹ 2,600</p>
<p>KZ-104</p>  <p>₹ 2,800</p>	<p>KZ-108</p>  <p>₹ 2,800</p>
<p>KZ-112</p>  <p>₹ 2,600</p>	<p>KZ-113</p>  <p>₹ 2,600</p>

Rated Voltage	Non-inductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	5(0.1)	5(0.1)	1.5	0.7	3	3	2.5	1.3
250V AC	3	3	1	0.5	2	2	1.5	0.8
8V DC	5(0.1)	5(0.1)	2	2	5	4	3	3
14V DC	5(0.1)	5(0.1)	2	2	4	4	3	3
30V DC	4(0.1)	4(0.1)	2	2	3	3	3	3
125V DC	0.4	0.4	0.05	0.05	0.4	0.4	0.05	0.05
250V DC	0.2	0.2	0.03	0.03	0.2	0.2	0.03	0.03
Surge Current	NC: 24A, NO: 10A							

Characteristics	
Rating	5A 125V, 3A 250V AC
Operation Speed	1mm - 1m/sec
Operating Frequency	Mechanical: 120 operations/min. Electrical: 30 operations/min.
Contact Resistance	15mΩ max. (initial value)
Insulation Resistance	100mΩ min. (below 500V DC)
Dielectric Strength	1000V AC, 50/60Hz for 1 minute between terminals of the same polarity
	1500V AC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500V AC, 50/60Hz for 1 minute between each terminal and ground
Vibration	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1000m/sec ² (about 100G'S) Malfunction: 500m/sec ² (about 50G'S)
Ambient Temperature	-10° C ~ +70° C (with no icing)
Humidity	<95% RH
Life	Mechanical: 10,000,000 operations above Electrical: 200,000 operations above
Weight	Approx. 360g (3m cable length) 540g (5m cable length)
Degree of Protection	IEC specification: IP67

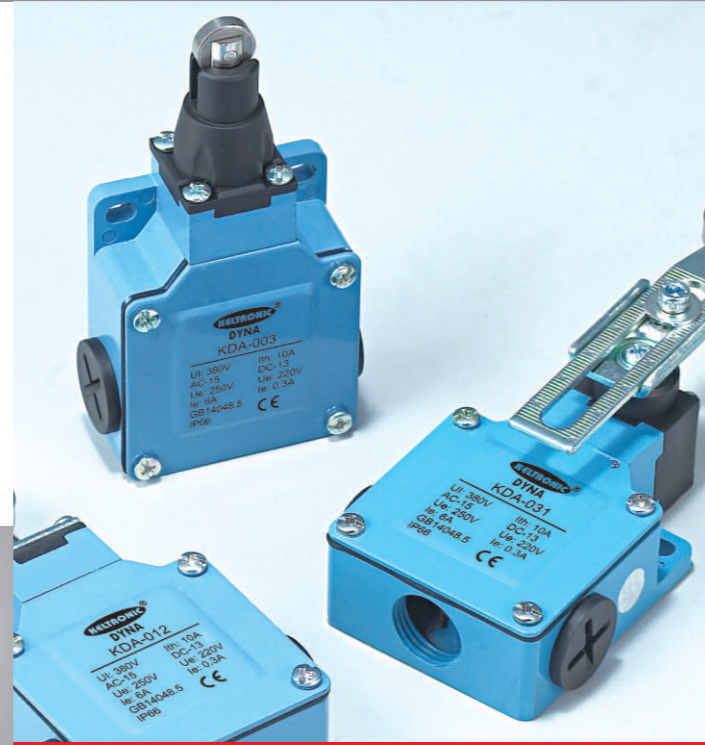
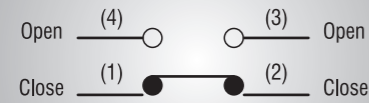
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|---------------------|---------------------------|
| OF: Operating Force | MD: Movement Differential |
| RF: Releasing Force | TT: Total Tavel |
| PT: Pre-Travel | OP: Operating Position |
| OT: Over Travel | |

Operating Characteristics						
Model	KZ-101	KZ-102	KZ-104	KZ-108	KZ-112	KZ-113
OF (Max.)	1200g	1200g	580g	580g	1800g	1800g
RF (Min.)	450g	450g	150g	150g	450g	450g
PT (Max.)	1.8mm	1.8mm	25°	25°	1.8mm	1.8mm
OT (Min.)	3mm	3mm	40°	40°	3mm	3mm
MD (Max.)	0.2mm	0.2mm	3°	3°	0.2mm	0.2mm
OP	15.7±1mm	28.5±1mm	-	-	34.3±1mm	34.3±1mm

Features ▶

- Strong metal outer shell
- Swing arm max. ±95°
- Stainless steel idler wheel, punch and spring
- Standard size configuration M18x1.5 for cable gland

Contact Form ▶



Characteristics

Double Break Mechanism	INO + INC Force Break Snap Action
Rated Voltage / Current	10(4)A, 125, 250V AC / 6(2)A, 380V AC for Inductance Load, Cosφ=0.4
Contact Resistance	25mΩ max. (initial value)
Insulation Resistance	100mΩ min. (at 500V DC)
Dielectric Strength	1000V AC, 50/60 HZ for 1 minute between terminals of the same polarity
	1500V AC, 50/60 HZ for 1 minute between current-carrying and non-current-carrying metal parts
	1500V AC, 50/60 HZ for 1 minute between each terminal and ground
Electrical Life	500,000 at 10A 250V AC Resistive
Mechanical Life	10,000,000 operations min. (under rated conditions)
Operating Speed	5mm/sec to 0.5m/sec
Degree of Protection	IP66
Ambient Temperature Rised	Max. 30°C over ambient temperature at rated voltage/current
Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5°C ~ +65°C (with no icing)
Storage Temperature	-5°C ~ +65°C (with no icing)
Ambient Operating Humidity	95% Rh max.
Shock Resistance	Mechanical durable: 1000m/sec ² min.
	Malfunction: 300m/sec ² min.
Vibration Frequency	Malfunction: 10 to 55Hz 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf/cm
Other Screw Torsional Force	Cover 12-14 kgf/cm Head 8-9 kgf/cm Mounting 50-60 kgf/cm
Bare Wire Diameter	Ø2 max.
Cable Diameter	Ø12 max. (IP66 if use cable Ø8-9)

- OF: Operating Force
- RF: Releasing Force
- PT: Pre-Travel
- TP: Tripping Position
- MD: Movement Differential
- OT: Over Travel
- TT: Total Tavel
- RI: Rotary Indexing

Operating Characteristics

Model	KDA-001	KDA-003	KDA-012	KDA-021	KDA-031	KDA-061	KDS-171	KDA-081
OF (Max.)	800g	800g	800g	400g/cm	400g/cm	150g	150g	150g
RF (Min.)	400g	400g	400g	100g/cm	100g/cm	50g	50g	50g
PT (Max.)	1.8mm	1.8mm	1.8mm	20°	20°	30mm	30mm	30mm
TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°
MD (Max.)	1.2mm	1.2mm	1.2mm	10°	10°	14°	14°	14°
OT (Min.)	4.0mm	4.0mm	4.0mm	75°	75°	20mm	20mm	20mm
TT (Min.)	5.8mm	5.8mm	5.8mm	95°	95°	50mm	50mm	50mm
RI	-	-	-	22.5°	22.5°	-	-	-

Product Appearance ▶

