# PREWIRED METAL LIMIT SWITCH, K SERIES, TOP ROLLER PUSH PLUNGER. CONTACTS 1NO+1NC SNAP ACTION

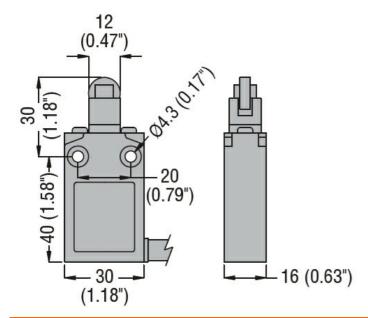


Product type designation   Fire Product type of contact   Fire Product Prod	Product designation			Top roller push	
				_	
Material         Housing Roller         Aluminium-zinc alloy				KPB1	
Housing   Housing   Roller   Plastic   Plastic					
Roller   R	Material				
Plastic   Pl		Housing			
Contact contact         INO+1NC Snap action           Type of contact         1NO+1NC Snap action           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         B300 R300           Rated insulation voltage Uim         kV         4           Rated insulation voltage Uimp         kV         4           Insulation class         I         I           IEC Conventional free air thermal current lth         A         10           Resistance per pole (average value)         mmΩ         <25	<td></td> <td>Poller</td> <td></td> <td>•</td>		Poller		•
Type of contact   Substitute   Substitut	Contact characteristics	Kollei		Flastic	
Thermal current lith				1NO+1NC Snap	
EEC/EN 60947-5-1 designation   Rated insulation voltage Ui   V   400     Rated insulation voltage Uimp   kV   4     Insulation class   I     IEC Conventional free air thermal current Ith   A   10     Resistance per pole (average value)   mΩ   <25     Conductivity   10mA 5V     Mechanical features   Fixed     Operating torque (Max)   Switch fixing   N   10     Ib   2.2     Tightening torque (Max)   Switch fixing   Nm   2.5     Ibin   22.1     Weight   g   290     Operations   Switch fixed   Gycles   10000000     Mechanical life   Cycles   10000000     Mechanical operation   Cycles   10000000     Ambient conditions   Fixed   Gycles   10000000     Ambient conditions   Fixed   Gycles   10000000     Rated insulation   Rate   Gycles   10000000     Rated insulation   Gycles   10000000	Type of contact			•	
Rated insulation voltage Uir         V         400           Rated impulse withstand voltage Uimp         kV         4           Insulation class         I           IEC Conventional free air thermal current Ith         A         10           Resistance per pole (average value)         mΩ         <25	Thermal current Ith		Α	10	
Rated insulation voltage Uir         V         400           Rated impulse withstand voltage Uimp         kV         4           Insulation class         I           IEC Conventional free air thermal current Ith         A         10           Resistance per pole (average value)         mΩ         <25	IEC/EN 60947-5-1 designation			B300 R300	
Rated impulse withstand voltage Uimp         kV         4           Insulation class         I           IEC Conventional free air thermal current Ith         A         10           Resistance per pole (average value)         mΩ         <25			V	400	
IEC Conventional free air thermal current lth         A 10           Resistance per pole (average value)         mΩ < 25	Rated impulse withstand voltage Uimp		kV	4	
Resistance per pole (average value)         mΩ         <25           Conductivity         10mA 5V           Mechanical features         Fixed           Operating head fixing         Fixed           Operating torque         N         10           Ib         2.2           Tightening torque (Max)           Switch fixing         Nm         2.5           Ibin         22.1           Weight         g         290           Operations           Mechanical life         cycles         >10000000           Mechanical operation         cycles/b         3600           Ambient conditions         Temperature         min         °C         -25           max         °C         -70         Storage temperature         min         °C         -40           Resistance & Protection         Body housing         IP67         Pollution degree         Body housing         IP67           Pollution degree         Body housing         IP67         Pollution degree	Insulation class			I	
Conductivity   10mA 5V   Machanical features   Fixed	IEC Conventional free air thermal current Ith		Α	10	
Mechanical features           Operating head fixing         Fixed           Operating torque         N 10 1b 2.2           Tightening torque (Max)         Nm 2.5 1bin 22.1           Switch fixing         Nm 2.5 1bin 22.1           Weight         g 290           Operations         Cycles > 10000000           Mechanical life         cycles/h 3600           Ambient conditions         cycles/h 3600           Temperature         min °C -25 max °C +70           Storage temperature         min °C -25 max °C +70           Resistance & Protection         Body housing         IP67           Pollution degree         Body housing         IP67	Resistance per pole (average value)		mΩ	<25	
Fixed           Operating torque           N 10 10 10 2.2           Tightening torque (Max)           Switch fixing           Nm 2.5 10in 22.1           Weight         g 290           Operations           Mechanical life         cycles > 10000000           Mechanical operation         cycles/h 3600           Ambient conditions           Temperature           Operating temperature         min classification conditions         °C -25 conditions           Storage temperature           Min class colspan="2">Storage temperature         min class colspan="2">class colspan				10mA 5V	
Operating torque           N 10 10 1b 2.2           Tightening torque (Max)           Switch fixing           Nm 2.5 1bin 22.1           Weight         g 290           Operations           Mechanical life         cycles > 10000000           Mechanical operation         cycles/h 3600           Ambient conditions           Temperature           Min or C -255 max or C +70           Storage temperature         min or C -440 max or C +70           Resistance & Protection           IP degree         Body housing         IP67           Pollution degree         Body housing         IP67	Mechanical features				
N   10   10   10   2.2   10   10   10   10   10   10   10   1	Operating head fixing			Fixed	
Tightening torque (Max)	Operating torque				
Tightening torque (Max)           Switch fixing           Nm         2.5           lbin         22.1           Weight         g         290           Operations           Mechanical life         cycles         >10000000           Mechanical operation         cycles/h         3600           Ambient conditions           Temperature           Min         °C         -25         max         °C         +70           Storage temperature         min         °C         -40         max         °C         -40<					
Switch fixing           Weight         g         2.5           Mechanical life         cycles         >10000000           Mechanical operation         cycles/h         3600           Ambient conditions         Temperature           Operating temperature         min °C -25           max         °C +70           Storage temperature           min °C -440         -40           max         °C +70           Resistance & Protection           IP degree         Body housing         IP67           Pollution degree         3			Ib	2.2	
Weight         g         2.5           Mechanical life         cycles         >10000000           Mechanical operation         cycles/b         3600           Ambient conditions         cycles/b         3600           Temperature         min         °C         -25					
Weight         g         29.0           Operations           Mechanical life         cycles         >10000000           Mechanical operation         cycles/h         3600           Ambient conditions           Temperature           min °C -25 max °C +70           Storage temperature           Min °C -40 max °C +70           Resistance & Protection           IP degree         Body housing         IP67           Pollution degree         Body housing         IP67	Switch fixing				
Weight         g         290           Operations           Mechanical life         cycles         >10000000           Mechanical operation           Ambient conditions           Temperature           Min         °C         -25           max         °C         +70           Storage temperature           Min         °C         -40           max         °C         -40           max         °C         -40           Resistance & Protection           IP degree           Body housing         IP67           Pollution degree         3					
Operations           Mechanical life         cycles         >10000000           Mechanical operation         cycles/h         3600           Ambient conditions           Temperature           min °C -25 max °C +70           Storage temperature           min °C -40 max °C +70           Resistance & Protection           IP degree           Body housing         IP67           Pollution degree         3	Walaka				
Mechanical life         cycles         >10000000           Mechanical operation         cycles/h         3600           Ambient conditions           Temperature           min °C -25 max °C +70           Storage temperature           min °C -40 max °C +70           Resistance & Protection           IP degree           Body housing         IP67           Pollution degree         3			g	290	
Mechanical operation         cycles/h         3600           Ambient conditions           Temperature           min °C -25 max °C +70           Storage temperature           min °C -40 max °C +70           Resistance & Protection           IP degree           Body housing         IP67           Pollution degree         3	•		ovoloo.	. 1000000	
Ambient conditions   Temperature   Operating temperature					
Operating temperature	·		Cycles/11	3000	
Operating temperature           min         °C         -25           max         °C         +70           Storage temperature           min         °C         -40           max         °C         +70           Resistance & Protection           IP degree         Body housing         IP67           Pollution degree         3					
min max         °C -25 +70           Storage temperature         min °C -40 max °C +70           Resistance & Protection         Fedgree           IP degree         Body housing         IP67           Pollution degree         3	•				
Max         °C         +70           Storage temperature         min         °C         -40           max         °C         +70           Resistance & Protection           IP degree         Body housing         IP67           Pollution degree         3	Operating temperature	min	°C	-25	
Storage temperature  min °C -40 max °C +70  Resistance & Protection  IP degree  Body housing IP67  Pollution degree 3					
min °C -40 max °C +70  Resistance & Protection  IP degree  Body housing IP67  Pollution degree 3	Storage temperature				
Resistance & Protection  IP degree  Body housing IP67  Pollution degree 3		min	°C	-40	
IP degree  Body housing IP67  Pollution degree 3		max	°C	+70	
Body housing IP67 Pollution degree 3	Resistance & Protection				
Pollution degree 3	IP degree				
		Body housing		IP67	
Dimensions				3	
	Dimensions				



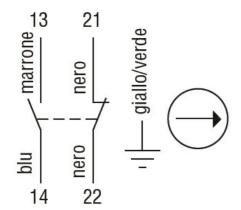
**ENERGY AND AUTOMATION** 

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## Wiring diagrams

# Snap action



1NO + 1NC

### Certifications and compliance

Compliance

CSA C22.2 n° 14.

IEC/EN 60947-1

IEC/EN 60947-5-1

**UL508** 

Certificates

cULus

EAC

### ETIM classification

**ETIM 8.0** 

EC000030 - End

switch