



Product designation	Wobble stick, omnidirectional
Product type designation	KBM
General characteristics	
Material	

Rod Flexible Type of contact 2NO Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp KV 6 Insulation class II II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current Ith A 10 Resistance per pole (average value) mΩ <10 Mcchanical features Operating head fixing Locking bayonet insert Locking bayonet insert Operating torque Ncm 1.42 Tightening torque (Max) Switch fixing Nm 0.8 Edition Rod Nm 0.8 Ibin 7 Edition 7 Contact terminals Nm 0.8 Ibin 7 Edition 7 Conductor section			Housing		Polymer thermoplastic
Contact characteristics ZNO Slow action Type of contact 2NO Slow action Thermal current th A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II 10 gG/SC Short-circuit protection with fuse Class/A 10 gG/SC Switching speed min m/s 0.5 IEC Conventional free air thermal current th A 10 Resistance per pole (average value) mQ <10			Rod		
Type of contact 2NO Slow action Thermal current th A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current Ith A 10 Resistance per pole (average value) mQ <10	Contact characteristics	S			
Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II 10 gG/SC Switching speed min m/s 0.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10					2NO Slow action
Rated insulation voltage Ui V 690 Rated impulse withstand voltage Uimp kV 6 Insulation class II 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 mix m/s 1.5 15 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10				А	10
Rated insulation voltage Ui V 690 Rated impulse withstand voltage Uimp kV 6 Insulation class II 10 gG/SC QUICK FUSE Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 IEC Conventional free air thermal current Ith A 10 Resistance per pole (average value) mΩ <10	IEC/EN 60947-5-1 des	signation			A600 Q600
Insulation class II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed No.5 max m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 Mechanical features Operating head fixing Locking bayonet insert Operating torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil IEC min mm² 1or 2				V	690
Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current Ith A 10 Resistance per pole (average value) mΩ <10	Rated impulse withsta	nd voltage Uimp		kV	6
Shint-Circuit protection with fuse Class/A QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Insulation class				
min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Short-circuit protection	n with fuse		Class/A	
max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10	Switching speed				
IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10			min	m/s	0.5
Resistance per pole (average value) mΩ <10			max	m/s	1.5
Mechanical features Locking bayonet insert Operating head fixing Locking bayonet insert Operating torque Ncm 1 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 IEC min 16 max 14	IEC Conventional free	air thermal current Ith		А	10
Operating head fixing Locking bayonet insert Operating torque Ncm 1 Operating torque (Max) 02in 1.42 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 10in 22.1 Contact terminals Nm 0.8 10in 7 Body lid screw fixing Nm 0.8 10in 7 Conductor section AWG/Kcmil min 16 14 IEC min mm 14	Resistance per pole (a	average value)		mΩ	<10
Operating nead fixing insert Operating torque Ncm 1 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 IEC min 16 min mm 14	Mechanical features				
Ncm 1 Tightening torque (Max) Switch fixing Nm 2.5 Libin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Body lid screw fixing Nm 0.8 Ibin 7 7 Conductor section Nm 0.8 AWG/Kcmil min 16 max 14 14	Operating head fixing				
Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Ibin IEC min 16 min<	Operating torque				
Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Ibin AWG/Kcmil min 16 IEC min 14					
Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm² 1 or 2				ozin	1.42
Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 7 IEC min 16 min 14	Tightening torque (Max				
Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 7 IEC min 16 min 14 IEC min 10r 2		Switch fixing			
Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 16 min 14 IEC min 14					
Nm 0.8 Body lid screw fixing 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 7 AWG/Kcmil 16 IEC 14		-		lbin	22.1
Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil T AWG/Kcmil min 16 IEC min 14		Contact terminals			
Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Imin AWG/Kcmil 16 IEC 14 IEC 10 r 2					
Nm 0.8 Ibin 7 Conductor section AWG/Kcmil		De de lid e group fining		IDIN	1
Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mn²		Body lid screw lixing		Nim	0.0
Conductor section AWG/Kcmil min 16					
AWG/Kcmil min 16 max 14 IEC min mm ² 1or 2	Conductor section				1
min 16 max 14 IEC min mm ² 1or 2		AW/G/Kemil			
IEC min mm² 1or 2			min		16
IEC min mm ² 1or 2					
min mm ² 1or 2		IEC	Пах		
			min	mm²	1or 2

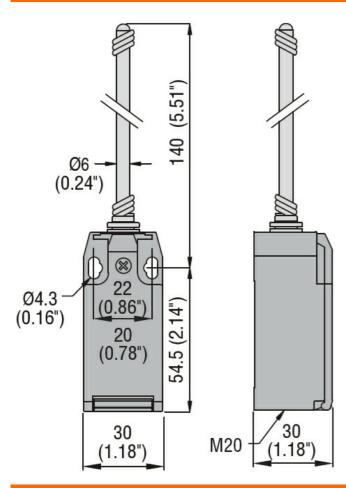


KBM1L20

ENERGY AND AUTOMATION LIMIT SWITCH, K SERIES, WOBBLE STICK, OMNIDIRECTIONAL, 1 BOTTOM CABLE ENTRY. ENERGY AND AUTOMATION DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 2NO SLOW ACTION. FLEXIBLE ROD

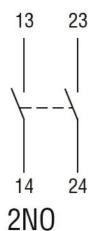
Cable connection				Self-releasing screw terminal
Cable entry				M20 on the bottom
Operations				
Mechanical life			cycles	<1000000
Mechanical operation			cycles/h	3600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+70
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
IP degree				
		Terminals		IP20
		Body housing		IP65
Pollution degree				3

Dimensions



Wiring diagrams

Slow action



Certifications and	l compliance	
Compliance		
	CSA C22.2 n° 14	
	EN 50047	
	IEC/EN 60204-1	
	IEC/EN 60947-1	
	IEC/EN 60947-5-1	
	UL508	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	on de la constante de la const	
		EC000030 - End

ETIM 8.0

EC000030 - End switch