

# IDEM Solenoid Interlock Safety Switch Selection Guide

**KLP-201002****KLM-202002****KL3-SS-205002****KL1-P-221302**

Series	KLP	KLM	KL3-SS	KL1-P
Prices start at	\$233.00	\$258.00	\$609.00	\$227.00
Description	Solenoid locking, tongue (key) interlock operated, 1800N holding force, power to unlock, 90° adjustable head	Solenoid locking, tongue (key) interlock operated, 2000N holding force, power to unlock, 90° adjustable head	Solenoid locking, tongue (key) interlock operated, 2000N holding force, power to unlock, 90° adjustable head	Solenoid locking, tongue (key) interlock operated, 1400N holding force, power to unlock, 180° adjustable head
Construction Material	46mm wide polyester plastic body, 40mm wide 316 stainless steel head	46mm wide die-cast aluminum body, 40mm wide die-cast aluminum head	48mm wide 316 stainless steel body, 40mm wide 316 stainless steel head	63mm wide polyester plastic body, 52mm wide 316 stainless steel head
Degree of Protection (IEC529)	IEC IP67		IEC IP67, IEC IP69K	IEC IP67
Mechanical Service Life	2.5M operations at 100mA load			
Conduit Opening	1 conduit opening, 1/2 in female NPT	3 conduit openings, 1/2 in female NPT		1 conduit opening, 1/2 in female NPT
Agency Approvals	cULus E258676, CE			

**KL1-SS-220002****KLTM-450002****KLT-SS-451002**

Series	KL1-SS	KLTM	KLT-SS
Prices start at	\$446.00	\$253.00	\$506.00
Description	Solenoid locking, tongue (key) interlock operated, 1600N holding force, power to unlock, 180° adjustable head	Solenoid locking, tongue (key) interlock operated, 2000N holding force, power to unlock, 180° adjustable head	Solenoid locking, tongue (key) interlock operated, 2000N holding force, power to unlock, 180° adjustable head
Construction Material	63mm wide 316 stainless steel body, 52mm wide 316 stainless steel head	105mm wide die-cast aluminum body, 95mm wide 316 stainless steel head	105mm wide 316 stainless steel body, 95mm wide 316 stainless steel head
Degree of Protection (IEC529)	IEC IP67, IEC IP69K	IEC IP67	IEC IP69K
Mechanical Service Life	2.5M operations at 100mA load		
Conduit Opening	1 conduit opening, 1/2 in female NPT	3 conduit openings, 1/2 in female NPT	
Agency Approvals	cULus E258676, CE		

# IDEM Interlock Safety Switch Selection Guide

**Inch-1/Inch-3 Series****MK1-SS Series****HC-1 Series**

Series	Inch-1 Inch-3	MK1-SS	HC-1
<b>Prices start at</b>	<b>\$40.00</b>	<b>\$129.00</b>	<b>\$42.50</b>
<b>Description</b>	Safety switch, tongue (Key) Interlock operated, 90 degree adjustable Head		Safety switch, Compact Hinge Interlock
<b>Construction Material</b>	25mm wide plastic body with metal head	30mm wide stainless steel 316	25mm wide plastic body with 316 stainless steel head
<b>Degree of Protection (IEC529)</b>	IP67	IP69K	IP67
<b>Mechanical Service Life</b>	2.5 x 10 <sup>6</sup> operations at 100mA load		
<b>Conduit Opening</b>	M16 & M12 QD	1/2 in NPT M20 & M12 QD	M16 & M12 QD
<b>Agency Approvals</b>	cULus E258676, CE		

**IDIS-190051****IDIS-192002****KM-203002****KM-203002-SS****KM-SS-204002**

Series	IDIS-1	IDIS-2	KM	KM-SS
<b>Prices start at</b>	<b>\$35.00</b>	<b>\$32.50</b>	<b>\$85.00</b>	<b>\$174.00</b>
<b>Description</b>	Safety switch, tongue (key) interlock operated, 90 degree adjustable head	Safety switch, lever hinge interlock operated, 90 degree adjustable head	Safety switch, tongue (key) interlock operated, 90 degree adjustable head	
<b>Construction Material</b>	31.5 mm wide, plastic body and head		40 mm wide, die-cast aluminum body and head or die-cast aluminum body and 316 stainless steel head	41.6 mm wide, 316 stainless body and head
<b>Degree of Protection (IEC529)</b>	IEC IP67			IEC IP67, IEC IP69K
<b>Mechanical Service Life</b>	2.5 x 10 <sup>6</sup> operations at 100 mA load			
<b>Conduit Opening</b>	One conduit opening, 1/2 in. female NPT			
<b>Agency Approvals</b>	cULus E258676, CE			

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**KP-200002**  
**KP-200002-SS**



**K-SS-208002**



**K-15-207002**



**K-15-207002-SS**



Series	KP	K-SS	K-15	K-15-SS
Prices start at	\$52.00	\$170.00	\$52.00	\$75.00
Description	Safety switch, tongue (key) interlock operated, 180 degree adjustable head		Safety switch, tongue (key) interlock operated, 180 degree adjustable head	
Construction Material	58 mm wide, plastic body and head or plastic body and 316 stainless head	58 mm wide, 316 stainless body and head	54 mm wide, plastic body and head	54 mm wide, plastic body and 316 stainless head
Degree of Protection (IEC529)	IEC IP67	IEC IP67, IEC IP69K	IEC IP67	
Mechanical Service Life	2.5 x 106 operations at 100 mA load			
Conduit Opening	Three conduit openings, 1/2 in. female NPT			
Agency Approvals	cULus E258676, CE			

**GLM-143067-AS**



**GLS-142053**



**GLS-SS-144020-AS**



Series	GLM	GLS	GLS-SS
Prices start at	\$224.00	\$189.00	\$492.00
Description	Safety switch, cable-pull interlock operated, with reset. Protection up to 50 meters (164 ft)	Safety switch, cable-pull interlock operated, with reset. Protection up to 80 meters (262 ft)	Safety switch, cable-pull interlock operated, with reset. Protection up to 100 meters (328 ft)
Construction Material	57 mm wide, die-cast aluminum body	63 mm wide, die-cast aluminum body	65 mm wide, 316 stainless steel body
Degree of Protection (IEC529)	IEC IP67		IEC IP67, IP69K
Mechanical Service Life	1.5 x 10 <sup>6</sup> operations at 100 mA load		
Conduit Opening	Three conduit openings, 1/2 in. female NPT		
Agency Approvals	cULus E258676, CE		

# Comepi Safety Switches Selection Guide



Series	SP2 Series	SDM Series
<b>Prices start at</b>	<b>\$17.00</b>	<b>\$21.50</b>
<b>Description</b>	30 mm safety limit switch with keys or shaft lever	50 mm safety limit switch with keys, shaft lever or pull wire
<b>Material of Construction</b>	Plastic casing, double insulated	ZAMAK (zinc alloy) casing
<b>Degree of Protection (IEC529)</b>	IEC IP65	IEC IP66
<b>Maximum Switching Frequency</b>	Contact blocks: 1 cycle per second (all)	Contact blocks: 1 cycle per second (all)
<b>Mechanical Service Life</b>	1,000,000 operations interlock and limit switches	1,000,000 operations. interlock and limit switches 500,000 operations for K9800 and K9900 cable pull switches 25,000 operations for K98 and K99 cable pull switches
<b>Contact Configuration</b>	X11 - Slow action, positive opening, 1 N.O. + 1 N.C. W02 - Simultaneous, slow action, positive opening, 2 N.C.	X11 - Slow action, positive opening, 1 N.O. + 1 N.C. W02 - Simultaneous, slow action, positive opening, 2 N.C.
<b>Conduit Opening</b>	One cable hole, 1/2" NPT adapter	Three cable holes, 1/2" NPT
<b>Connection</b>	2x2.5 mm <sup>2</sup> (AWG14) to 2x0.5 mm <sup>2</sup> (AWG 18)	2x2.5 mm <sup>2</sup> (AWG14) to 2x0.5 mm <sup>2</sup> (AWG 18)
<b>Agency Approvals</b>	CE, UL file E189258, RoHS	CE, UL file E189258, RoHS



Series	SBM Series	SCM Series
<b>Prices start at</b>	<b>\$27.00</b>	<b>\$28.00</b>
<b>Description</b>	40 mm safety limit switch with keys or pull wire	60 mm safety limit switches with keys or pull wire
<b>Material of Construction</b>	Aluminum casing	Aluminum casing
<b>Degree of Protection (IEC529)</b>	IEC IP66	IEC IP66
<b>Maximum Switching Frequency</b>	Contact blocks: 1 cycle per second (all)	Contact blocks: 1 cycle per second (all)
<b>Mechanical Service Life</b>	1,000,000 operations. interlock and limit switches 25,000 operations for cable pull switches	1,000,000 operations interlock and limit switches 500,000 operations for K9800 and K9900 cable pull switches 25,000 operations for K98 and K99 cable pull switches
<b>Contact Configuration</b>	X11 - Slow action, positive opening, 1 N.O. + 1 N.C. W02 - Simultaneous, slow action, positive opening, 2 N.C. X12 - Slow action, positive opening, 1 N.O. + 2 N.C. W03 - Simultaneous, slow action, positive opening 3 N.C.	X11 - Slow action, positive opening, 1 N.O. + 1 N.C. W02 - Simultaneous, slow action, positive opening, 2 N.C. X12 - Slow action, positive opening, 1 N.O. + 2 N.C. W03 - Simultaneous, slow action, positive opening 3 N.C.
<b>Conduit Opening</b>	One cable hole, 1/2" NPT	Three cable holes, 1/2" NPT
<b>Connection</b>	2x2.5 mm <sup>2</sup> (AWG14) to 2x0.5 mm <sup>2</sup> (AWG 18)	2x2.5 mm <sup>2</sup> (AWG14) to 2x0.5 mm <sup>2</sup> (AWG 18)
<b>Agency Approvals</b>	CE, UL file E189258, RoHS	CE, UL file E189258, RoHS

# Safety Limit Switches Selection Guide



Series	HLM Series	HLM-SS Series	LSPS Series
<b>Prices start at</b>	<b>\$80.00</b>	<b>\$174.00</b>	<b>\$27.00</b>
<b>Description</b>	Die-cast metal body safety limit switch	Stainless steel body safety limit switch	Plastic body safety limit switch
<b>Material of Construction</b>	Die-cast zinc aluminum casing	Stainless steel 316 casing	Plastic casing
<b>Degree of Protection (IEC529)</b>	IEC IP67	IEC IP67/IP69	IEC IP67
<b>Maximum Switching Frequency</b>	6,000 operations/day	6,000 operations/day	6,000 operations/day
<b>Mechanical Service Life</b>	2,500,000 cycles	2,500,000 cycles	2,500,000 cycles
<b>Contact Configuration</b>	Each model available with: 2 N.C. / 2 N.O. slow action break before make contacts, or 1 N.O. / 1 N.C. snap action contacts	Each model available with: 2 N.C. / 2 N.O. slow action break before make contacts, or 1 N.O. / 1 N.C. snap action contacts	Each model available with: 2 N.C. / 2 N.O. slow action break before make contacts, or 1 N.O. / 1 N.C. snap action contacts
<b>Conduit Opening</b>	One cable hole	One cable hole	One cable hole
<b>Connection</b>	1/2 inch female NPT conduit	1/2 inch female NPT conduit	1/2 inch female NPT conduit
<b>Agency Approvals</b>	CE, UL (file E258676)	CE, UL (file E258676)	CE, UL (file E258676)



Series	LSMM Series	LSPM Series	AP2 Series
<b>Prices start at</b>	<b>\$49.00</b>	<b>\$37.50</b>	<b>\$15.50</b>
<b>Description</b>	Panel mount die-cast metal body safety limit switch	Panel mount plastic body safety limit switch	30 mm limit switches with pull button reset
<b>Material of Construction</b>	Die-cast zinc aluminum casing	Plastic casing	Plastic casing, double insulated
<b>Degree of Protection (IEC529)</b>	IEC IP67	IEC IP67	IEC IP65
<b>Maximum Switching Frequency</b>	6,000 operations/day	6,000 operations/day	Contact blocks: 1 cycle per second (all)
<b>Mechanical Service Life</b>	2,500,000 cycles	2,500,000 cycles	1,000,000 operations interlock and limit switches
<b>Contact Configuration</b>	Each model available with: 2 N.C. / 1 N.O. slow action break before make contacts, or 1 N.O. / 1 N.C. snap action contacts	Each model available with: 2 N.C. / 1 N.O. slow action break before make contacts, or 1 N.O. / 1 N.C. snap action contacts	X11 - Slow action break before make, positive opening, 1 N.O. + 1 N.C. W02 - Simultaneous, slow action, positive opening, 2 N.C.
<b>Conduit Opening</b>	One cable hole	One cable hole	One cable hole, 1/2" NPT adapter
<b>Connection</b>	Pigtail; 2m / 6.5 ft cable length	Pigtail; 2m / 6.5 ft cable length	2x2.5mm2 (AWG14) to 2x0.5mm2 (AWG 18)
<b>Agency Approvals</b>	CE, UL (file E258676)	CE, UL (file E258676)	CE, UL file E189258, CSA 176294, RoHS

# Explosion-Proof Safety Switches Selection Guide



HLM-EX Group



HLM-SS-EX Group

Series	HLM-EX Series	HLM-SS-EX Series
<b>Prices Start At</b>	\$577.00	\$720.00
<b>Description</b>	Die-cast metal body safety limit switch	Stainless steel body safety limit switch
<b>Material of Construction</b>	Die-cast zinc aluminum casing	Stainless steel 316 casing
<b>Degree of Protection (IEC529)</b>	IP67	IP67/IP69
<b>Mechanical Service Life</b>	2.6x10 <sup>6</sup> cycles at 100mA load	2.6x10 <sup>6</sup> cycles at 100mA load
<b>Contact Configuration</b>	2 NC / 2 NO slow action break before make	2 NC / 2 NO slow action break before make
<b>Conduit Opening</b>	Sealed	Sealed
<b>Connection</b>	3m [9.84 ft] prewired pigtail cable	3m [9.84 ft] prewired pigtail cable
<b>Agency Approvals</b>	ATEX, IECEx, CE, UR (file E358295)	ATEX, IECEx CE, UR (file E358295)



KP-EX-200026



K-SS-EX-208026



KM-EX-203026



KM-SS-EX-204026

Series	KP-EX Series	K-SS-EX Series	KM-EX Series	KM-SS-EX Series
<b>Prices Start At</b>	\$613.00	\$737.00	\$654.00	\$742.00
<b>Description</b>	Safety switch, tongue (key) interlock	Safety switch, tongue (key) interlock	Safety switch, tongue (key) interlock	Safety switch, tongue (key) interlock
<b>Material of Construction</b>	Plastic casing	Stainless steel 316 casing	Die-cast zinc aluminum casing	Stainless steel 316 casing
<b>Degree of Protection (IEC529)</b>	IP67	IP67/IP69	IP67	IP67/IP69
<b>Mechanical Service Life</b>	2.6x10 <sup>6</sup> cycles at 100mA load	2.6x10 <sup>6</sup> cycles at 100mA load	2.6x10 <sup>6</sup> cycles at 100mA load	2.6x10 <sup>6</sup> cycles at 100mA load
<b>Contact Configuration</b>	2 NC / 2 NO slow action break before make	2 NC / 2 NO slow action break before make	2 NC / 2 NO slow action break before make	2 NC / 2 NO slow action break before make
<b>Conduit Opening</b>	Sealed	Sealed	Sealed	Sealed
<b>Connection</b>	3m [9.84 ft] prewired pigtail cable	3m [9.84 ft] prewired pigtail cable	3m [9.84 ft] prewired pigtail cable	3m [9.84 ft] prewired pigtail cable
<b>Agency Approvals</b>	ATEX, IECEx, CE, UR (file E358295)	ATEX, IECEx, CE, UR (file E358295)	ATEX, IECEx, CE, UR (file E358295)	ATEX, IECEx, CE, UR (file E358295)



# Safety Products



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