Tongue Interlock Safety Switch Type: IDIS-1

FEATURES:

IDEM IDIS-1 Compact Safety Interlock switches are designed to provide position interlock detection for small moving guards.

They are designed to fit to the leading edge of sliding, hinged or lift off machine guards.

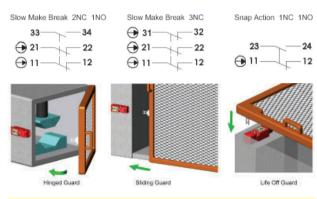
The rugged Stainless Steel actuator profile is designed to match a cam mechanism to provide a positively operated not easily defeatable interlock mechanism.

The compact body, 22mm fixing profile and rotatable head make them easy to install where space is restricted.

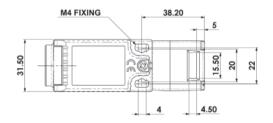
A Plastic Flexible Actuator is available for tight radius guards.

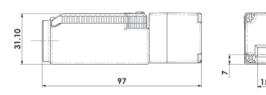
Contact blocks are replaceable with optional slow or snap break operation.

CONTACT BLOCK OPTIONS:



DIMENSIONS:







Switch Circuit	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
11/12	1 7
21/22 or 23/24	6 5
33/34 or 31/32	4 3



FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102





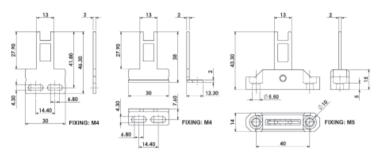




ACTUATOR OPTIONS:



ACTUATOR DIMENSIONS:



Standards:

ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL508

2.5 x 106 operations at 100mA load

Up to PLe depending upon system architecture

Up to SIL3 depending upon system architecture

8 cycles per hour/24 hours per day/365 days

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1 EN62061

Safety Data - Annual Usage

Utilization Category AC15 A300 3A Thermal Current Rated Insulation/Withstand Voltages 600Vac/2500Vac Travel for Positive Opening 6mm Actuator Entry Minimum Radius

Maximum Approach/Withdrawal Speed

Body Material Enclosure Protection Vibration

175mm Standard 100mm Flexible 600mm/s

MTTFd 356 years

Polyester

IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min Various (See Sales Number)

Conduit Entry Fixing 2 x M4

		SALES NUMBER		
PRODUCT	CONTACTS	M20	1/2" NPT	QC M12 8 WAY
IDIS-1 Switch	2NC 1NO	190050	190051	190053
IDIS-1 Switch	3NC	190054	190055	190057
IDIS-1 Switch	1NC 1NO Snap	190058	190059	190061
Actuator	Flat	Add F to Sales Number		
Actuator	Angled	Add A to Sales Number		
Actuator	Plastic Flexible	Add PF to Sales Number		

Tongue Interlock Safety Switch Type: INCH-1

FEATURES:

IDEM INCH-1 Compact Safety Interlock switches are designed to provide position interlock detection for small moving guards.

They are designed to fit to the leading edge of sliding, hinged or lift off machine quards.

The rugged Stainless Steel actuator profile is designed to match a cam mechanism to provide a positively operated not easily defeated interlock mechanism.

The compact body only 25mm wide with 18mm fixing centres and rotatable head make them easy to install where space is

The rotatable heads have dual actuator entry positions to give up to 8 different entry positions.

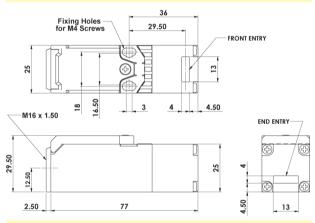
A Plastic Flexible Actuator is available for tight radius guards.

Contact blocks are replaceable 2NC or 1NC 1NO.

CONTACT BLOCK OPTIONS:



PRODUCT DIMENSIONS:



CONTACT OPERATION:

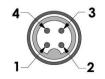
	2NC:	4	.0 0m	m	1NC 1NC	D: 4.	5 4	10 0.	mm
1	11/12	Open			11/12	Oper	n		
	21/22	Open			23/24			Open]



Stainless Steel Guide:

To assist with guard alignment IDEM recommend that you use the Stainless Steel Guide accessory (supplied with two stainless steel self-tapping screws).

SALES NUMBER - INCH 1 STAINLESS STEEL GUIDE



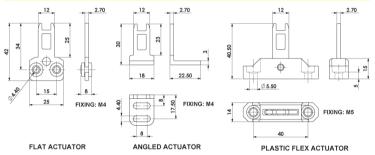
Switch Circuit	Quick Connect (QC) M12 4 Way Male (on Flying Lead 250mm) Pin View from Switch
11/12	1 3
21/22 or 23/24	4 2



INCH-1 ACTUATOR OPTIONS:



ACTUATOR DIMENSIONS:



Standards:

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1 EN62061 Safety Data - Annual Usage

Utilization Category Thermal Current Rated Insulation/Withstand Voltages Travel for Positive Opening Actuator Entry Minimum Radius Maximum Approach/Withdrawal Speed Head Material

Vibration Conduit Entry

Body Material **Enclosure Protection**

Fixina

ISO14119 EN60947-5-1 EN60204-1

2.5 x 106 operations at 100mA load Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture 8 cycles per hour/24 hours per day/365 days MTTFd 356 years

AC15 A300 3A 10A 600Vac/2500Vac 150mm Standard 100mm Flexible 600mm/s UL approved glass fibre Polyester

Stainless Steel 316

IFC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min 2 x M4

		SALES N	UMBER
PRODUCT	CONTACTS	M16	QC M12 4 WAY
INCH-1 Switch	2NC	222001	222002
INCH-1 Switch	1NC 1NO	222003	222004
Actuator	Flat	Add F to Sal	es Number
Actuator	Angled	Add A to Sal	es Number
Actuator	Plastic Flexible	Add PF to Sa	les Number

Tongue Interlock Safety Switch Type: INCH-3

FEATURES:

IDEM INCH-3 Compact Safety Interlock switches are designed to provide position interlock detection for small moving guards.

They are designed to fit to the leading edge of sliding, hinged or lift off machine guards.

The rugged Stainless Steel actuator profile is designed to match a cam mechanism to provide a positively operated not easily defeated interlock mechanism.

The compact body, 18mm fixing profile and rotatable head make them easy to install where space is restricted.

The rotatable heads have dual actuator entry positions to give up to 8 different entry positions.

3 conduit entry points are available to give flexible mounting options. Contact blocks are replaceable.

CONTACT BLOCK:

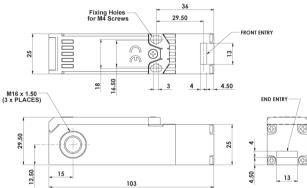
Slow Make Break 2NC 1NO



CONTACT OPERATION:

2NC 1NO	4.5	5 4	.0 0	mr
11/12	Open			
21/22	Open			
33/34			Open	

PRODUCT DIMENSIONS:





Stainless Steel Guide:

To assist with quard alignment IDEM recommend that you use the Stainless Steel Guide accessory (supplied with two stainless steel self-tapping screws).

SALES NUMBER - INCH 3 STAINLESS STEEL GUIDE



Switch Circuit	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
11/12	1 7
21/22	6 5
33/34	4 3



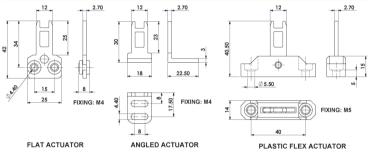
FEMALE QC LEADS		LENGTH	SALES NUMBER
M12	8 Way	5m (15ft)	140101
M12	8 Way	10m (30ft)	140102



INCH-3 ACTUATOR OPTIONS:



UATOR DIMENSIONS:



Standards: ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1 EN62061 Safety Data - Annual Usage

Utilization Category Thermal Current Rated Insulation/Withstand Voltages Travel for Positive Opening Actuator Entry Minimum Radius Maximum Approach/Withdrawal Speed

Body Material Head Material **Enclosure Protection** Vibration

Conduit Entry Fixing

2.5 x 106 operations at 100mA load Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture 8 cycles per hour/24 hours per day/365 days MTTFd 356 years AC15 A300 3A

10A 600Vac/2500Vac 6mm 150mm Standard 100mm Flexible 600mm/s UL approved glass fibre Polyester

Stainless Steel 316 **IP67** IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min

3xM16

		SALES NUMBER	
PRODUCT	CONTACTS	M16	QC M12 8 WAY
INCH-3 Switch	2NC 1NO	223001	223002
Actuator	Flat	Add F to Sal	es Number
Actuator	Angled	Add A to Sal	es Number
Actuator	Plastic Flexible	Add PF to Sa	lles Number

KOBRA - Stainless Steel Switch Type: HYGIECAM MK1-SS

FEATURES:

IDEM's new MK1-SS Compact Safety Interlock switches are designed to provide position interlock detection for small moving quards.

They are designed to fit to the leading edge of sliding, hinged or lift off machine guards.

Mirror polished surface finish to RA10 makes the MK1-SS ideally suited to the food processing and packaging environments.

The rugged Stainless Steel actuator profile is designed to match a cam mechanism to provide a positively operated not easily defeatable interlock mechanism.

The compact body, 30mm wide with 22mm fixing centres and rotatable head make them easy to install where space is restricted.

The rotatable heads have dual actuator entry positions to give up to 8 different entry positions.

A Plastic Flexible Actuator is available for tight radius guards.

Contact blocks are replaceable.

CONTACT BLOCK:

Slow Make Break 2NC 1NO

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 High Functional Safety to ISO13849-1 3 pole

Connects to most Safety Relays to give up to PLe Cat.4 Industry Standard Fitting:

98mm long 30mm wide 22mm fixing



Switch Circuit	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
11/12	1 7
21/22	6 5
33/34	4 3
Earth	8



FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102





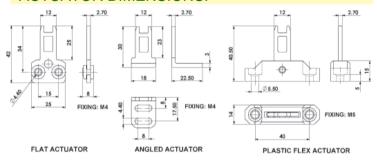




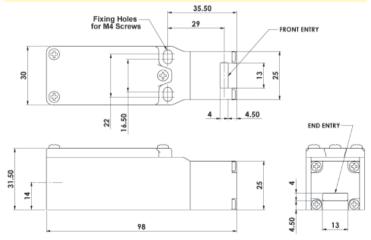
ACTUATOR OPTIONS:



ACTUATOR DIMENSIONS:



PRODUCT DIMENSIONS:



		SALES NUMBER			
PRODUCT	CONTACTS	M20	1/2" NPT	QC M12 8 WAY	
MK1-SS Switch	2NC 1NO	224001	224002	224003	
Actuator	Flat	Add F to Sales Number			
Actuator	Angled	Add A to Sales Number			
Actuator	Plastic Flexible	Add PF to Sales Number			

KOBRA - Stainless Steel Switch Type: HYGIECAM MK1-SS

CONTACT OPERATION AT WITHDRAWAL OF ACTUATOR:







2NC 1NO	4.5	4.5 4.0		
11/12	Open			
21/22	Open			
33/34			Open	1

Stainless Steel Guide:

To assist with guard alignment IDEM recommend that you use the Stainless Steel Guide accessory (supplied with two x M3 stainless steel screws).

SALES NUMBER - MK1-SS STAINLESS STEEL GUIDE

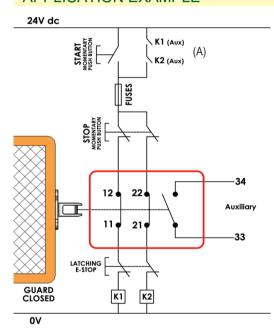


The head can be rotated to give 8 actuator entry positions.

Designed with a removable lid to fit replaceable contact blocks.

For extra durability flexible actuators are available.

APPLICATION EXAMPLE



Guard Door Interlocked - Dual Channel (Non Monitored)

This system shows interlock switch circuits 11-12 and 21-22 configured to allow direct feed to contactor coils K1 and K2.

This provides Dual Channel wiring and a check of the contactor feedback circuits through the auxiliary contacts (A) of K1 and K2.

Opening the interlock switch or depressing the Emergency Stop will isolate power to the contactor coils.

Re-start can only occur providing the Guard is closed, and the Emergency Stop is

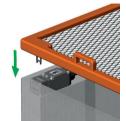
The system is shown with the Machine Stopped, the Guard Closed and the contactors able to be energised.



Hinged Guard



Sliding Guard



Lift Off Guard

Standards: ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data:

Mechanical Reliability B10d2.5 x 10⁶ operations at 100mA load

ISO13849-1 Up to PLe depending upon system architecture EN62061 Up to SIL3 depending upon system architecture Safety Data - Annual Usage 8 cycles per hour/24 hours per day/365 days MTTFd 356 years

Utilization Category AC15 A300 3A Thermal Current 10A Rated Insulation/Withstand Voltages 600Vac/2500Vac Travel for Positive Opening 6mm

150mm Standard 100mm Flexible Actuator Entry Minimum Radius Maximum Approach/Withdrawal Speed 600mm/s **Body Material** Stainless Steel 316 (mirror polished finish)

Enclosure Protection IP69K

Mounting Position

IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min Conduit Entry Various (See Sales Number) Fixing

IDEM recommend using our Stainless Steel 316 Gland with this switch.

STAINLESS STEEL 316 GLAND	SALES NUMBER
M20	140120
1/2" NPT	140121



For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted.