Z-Range with OSSD: **HS-SS-Z and HSM-Z**

FEATURES & APPLICATION:

IDEM's HS-SS-Z and HSM-Z Hinge Interlock Safety Switches have been developed to provide and maintain a high level of functional safety.

They will connect to most popular standard Safety Relays to maintain a PLe Safety Level even with switches connected in series.

They have easy to understand LED diagnostic functions and provide auxiliary outputs for extra diagnostic signals to PLCs.

The HS-SS-Z and HSM-Z Hinge Switches are designed to be mounted for interlock position sensing of hinged moving guards. They have been designed to be fitted to the hinged axis of machine guard doors and provide a robust hinge function in addition to interlock position sensing.

Enclosures are protected to IP67 / IP69K with a low profile, hygienic design for washdown.

The HS-Z hinge switches must be used in combination with a dual channel safety control device e.g. Safety Relay or Safety Controller. They can provide protection to Ple/Cat.4 to ISO 13849-1, and will maintain Ple with other Idem Z-type switches connected in series due to internal test functions of the switches. In addition, each switch provides input, output and guard state LED's.

A maximum of 30 switches can be connected in series.

Operation is achieved by the rotating action of an enclosed cam profile and sensing components within the switch.

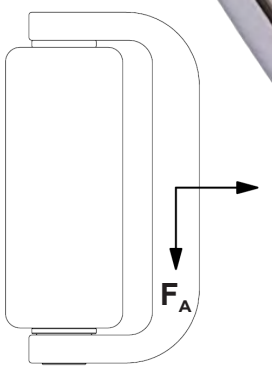
The hinge switch can be adjusted upon installation to provide guard-open output signal anywhere between 0 to 10 degrees.

All HS-Z switches are factory set to provide the guard open output signal at 3 degrees. Once set during installation the HS-Z is permanently pinned in order to provide a fully tamper-resistant switching point.

IP69K

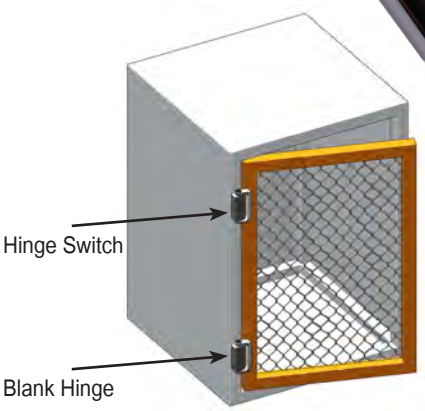
HS-SS-Z Hinge Switch
Stainless Steel 316
Mirror Polished Housing

HSM-Z Hinge Switch
Die Cast Mirror
Polished Housing



F_R = 800 N

F_A = 800 N



SAFETY RELIABILITY:

IDEM's HS-SS-Z and HSM-Z Hinge Switches employ two microprocessors and they use IDEM's intelligent system to constantly check all switches.

Safety Reliability up to ISO13849-1 PLe.

MAIN USER BENEFITS:

- Connect up to 30 switches in series.
- Able to connect to most popular Safety Relays without the need for special controllers.
- Ability to connect to other switches and Emergency Stops in series.
- Up to 800N axial force.
- Blank hinges are available.
- Mounting brackets available for ease of fixing.

FUNCTIONAL SPECIFICATION:

High Functional Safety to ISO13849-1 - connects to most Safety Relays to maintain PLe.

Safety Outputs short circuit protected.

One Auxiliary circuit for indication of door open.

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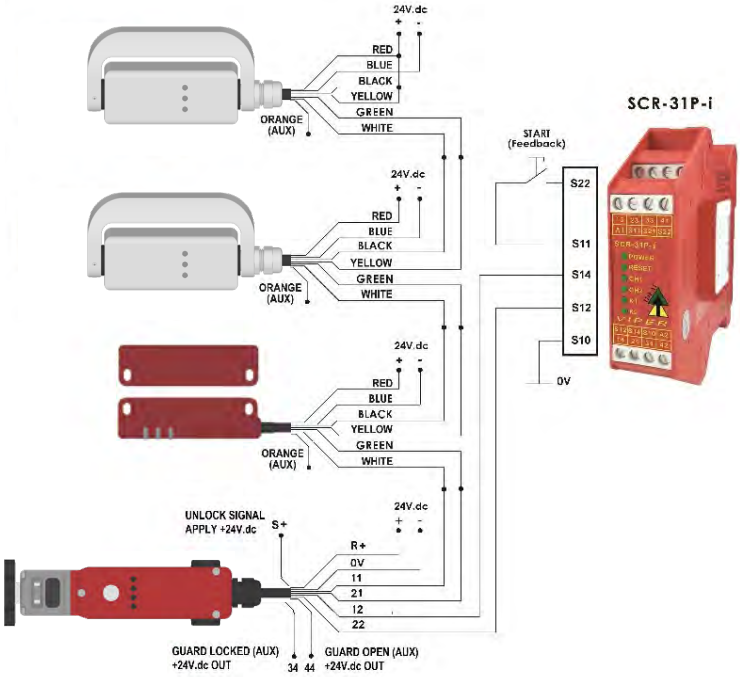
Z-Range with OSSD: **HS-SS-Z and HSM-Z**

CONNECTION EXAMPLE:

Multiple switches connected to SCR-31P-i Safety Relay (Viper series)



Standards: ISO 14119 IEC 60947-5-1 EN62061 EN60204-1 ISO 13849-1 UL 60947-5-1

Technical Data:

Rated Operating Voltage	24 Vdc -15% +10%Use SELV/PELV
Power Consumption	0.7 W
Outputs Rated Voltage	24 Vdc
Outputs Max. Current	0.2 A
Outputs Min. Current	1 mA
Outputs Type	PNP
Inputs Rated Voltage	24 Vdc
Inputs Rated Current	2 mA
Auxiliary Signalling	Output Rated Voltage 24 Vdc
Auxiliary Signalling	Output Max. Current 0.2 A
Signalling Output Type	PNP
Assured Switching Angles	Off 10 Degrees
Typical Switching Angles	Off 0 – 10 Degrees (Adjustable)
Response Time Guard Open	60ms max.
Response Time Inputs Off	20ms max.
Operating Temperature	-25 / 55C
Storage Temperature	-25 / 80C
Dielectric Withstand	250V.ac
Insulation Resistance	100 Mohms
Enclosure Protection	IP67 / IP69K
Vibration	IEC 68-2-6 10-55Hz+1Hz
Excursion: 0.35mm, 1 octave/min	
Conduit Entry	Various (see sales part numbers)
Fixing	7 x M5
Mounting Position	Any

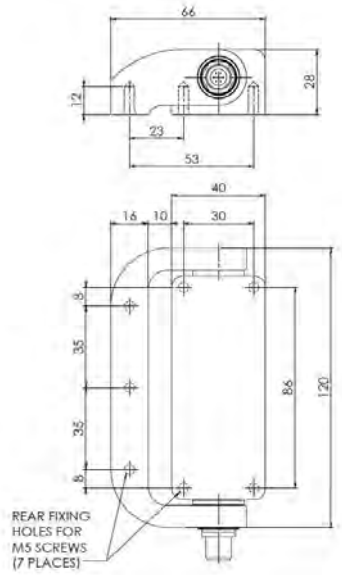
Characteristic Data according to IEC62061 (used as a sub system):

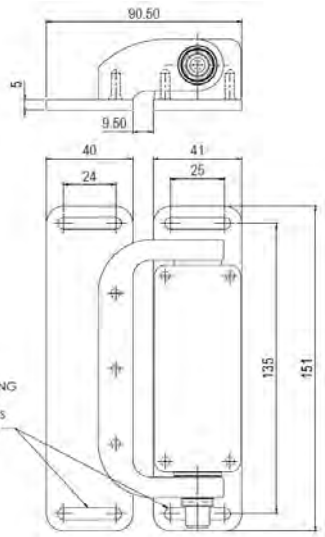
Safety Integrity Level	SIL3
PFH (1/h)	1.0 E-09 Corresponds to 1% of SIL3
PFD	8.7 E-05 Corresponds to 9% of SIL3
Proof Test Interval T1	20a

Characteristic Data according to EN ISO13849-1:

Performance Level	e
Category	4
MTTFd	771a

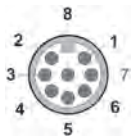
DIMENSIONS:





Blank Hinges

Shown with mounting brackets.



140101	Female QC Lead	M12 Female 5m. 8 way
140102	Female QC Lead	M12 Female 10m. 8 way

M12 8 Way Male Plug Pin view from Switch	Flying Lead Colour	Circuit (Actuator Present)
8	Orange	Auxiliary Signal Output +24Vdc
5	Brown	Not used
4	Yellow	Safety Input 1
6	Green	Safety Output 1
7	Black	Safety Input 2
1	White	Safety Output 2
2	Red	Supply +24Vdc
3	Blue	Supply 0Vdc

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

SALES NUMBER	SWITCH	CABLE LENGTH	ORIENTATION
HS-SS-Z HINGE SWITCH (Stainless Steel 316)			
352001	**HS-SS-Z**	5m	Right Handed
352002	**HS-SS-Z**	10m	Right Handed
352003	**HS-SS-Z**	QC-M12	Right Handed
352004	**HS-SS-Z**	5m	Left Handed
352005	**HS-SS-Z**	10m	Left Handed
352006	**HS-SS-Z**	QC-M12	Left Handed
350020	Blank Hinge Stainless Steel		
HSM-Z HINGE SWITCH (Die Cast Mirror Polished)			
353001	**HSM-Z**	5m	Right Handed
353002	**HSM-Z**	10m	Right Handed
353003	**HSM-Z**	QC-M12	Right Handed
353004	**HSM-Z**	5m	Left Handed
353005	**HSM-Z**	10m	Left Handed
353006	**HSM-Z**	QC-M12	Left Handed
351020	Blank Hinge Die Cast		
350025	Hinge Switch Mounting Brackets		

Hinge Interlock Safety Switch: **HSM**

FEATURES:

IDEM's HSM Hinge Switch has a die cast housing with a mirror polished finish and has been designed to be mounted for interlock position sensing of hinged moving guards.

The HSM has been designed to be fitted to the hinged axis of machine guard doors and provide a robust hinge function in addition to interlock position sensing.

It has positive opening contacts in accordance with IEC 60947-5-1 and after fitting the switch offers a very high degree of anti-tamper.

The HSM is used to mount the machine guard door into the machine guard frame and contact blocks are available in slow make/break 3NC 1NO, or 2NC 2NO.

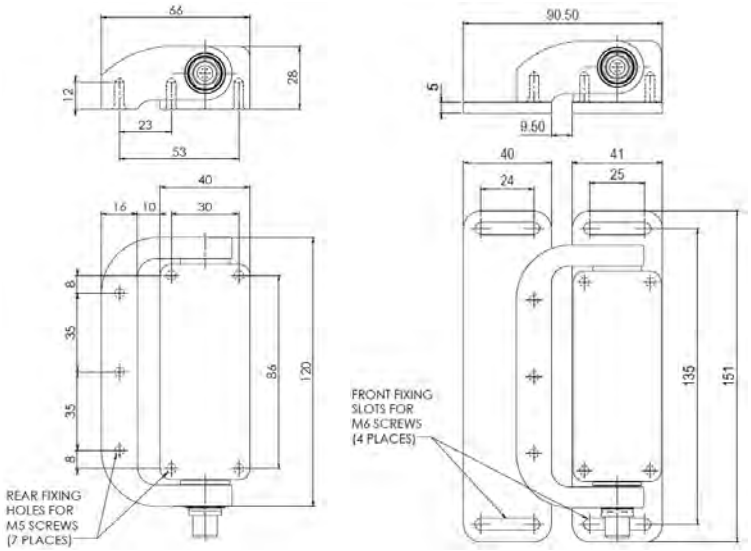
The enclosure is protected to IP67 with a low profile.

OPERATION:

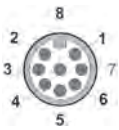
Operation of the switches is achieved by the rotating action of a cam and actuator to cause deflection of the switch plunger.

Positive actuation of the contacts is achieved at only 6 degrees of opening of the guard and can be adjusted up to 12 degrees if required upon installation.

DIMENSIONS:



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



Standards: ISO 14119, IEC 60947-5-1, EN60204-1
ISO 13849-1, EN62061

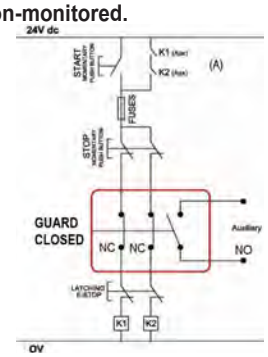
Technical Specification:

Mechanical Reliability B10d	1.5 x 106 operations at 100mA load
ISO 13849-1	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 (Ith)	10A
Overload protection fuse (fuse externally)	10A (FF)
Rated Insulation/Withstand Voltages	600VAC/2500VAC
Actuator Rotation for Positive Opening	6 degrees 0.5Nm (Type Zb contacts)
Maximum Approach Withdrawal Speed	600mm/s
Body Material	Die Cast (black plated mirror finish)
Enclosure Protection	IP67 / IP69K
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz+1Hz
	Excursion: 0.35mm, 1 octave/min
Conduit Entry	Various (see sales part numbers)
Fixing	7 x M5
Tightening Torque (all mounting bolts)	4Nm
Mounting Position	Any
Pollution Degree	3
Short Circuit Overload Protection	Fuse externally 10A (FF)

Blank Hinge

APPLICATION EXAMPLE:

Door Interlock - Dual Channel non-monitored.



This system shows interlock switch circuits configured to allow dual circuit direct feeds to contactor coils K1 and K2.

When the start button is pressed and then released, the auxiliary contacts (A) of contactors K1 and K2 maintain the feed to the contactor coils.

Opening of the Interlock Switch or depressing the E Stop will isolate power to the contactor coils.

Re-start can only occur providing the Guard is closed and the E Stop is reset. System is shown with the guards closed and machine able to start.

Function	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
NC3 or NO2 (optional)	4
NC3 or NO2 (optional)	3
NO (auxiliary)	2
NO (auxiliary)	8
NC1	7
NC1	1
NC2	6
NC2	5

SALES NUMBER	CONTACTS	CABLE LENGTH	ORIENTATION
351001	3NC 1NO	5m	Right Handed
351002	3NC 1NO	10m	Right Handed
351003	3NC 1NO	QC-M12	Right Handed
351004	2NC 2NO	5m	Right Handed
351005	2NC 2NO	10m	Right Handed
351006	2NC 2NO	QC-M12	Right Handed
351007	3NC 1NO	5m	Left Handed
351008	3NC 1NO	10m	Left Handed
351009	3NC 1NO	QC-M12	Left Handed
351010	2NC 2NO	5m	Left Handed
351011	2NC 2NO	10m	Left Handed
351012	2NC 2NO	QC-M12	Left Handed
351020	Blank Hinge Die-Cast		
350025	Hinge Switch Mounting Brackets		

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Hinge Interlock Safety Switch: **HS-SS**

FEATURES:

IDEM's HS-SS Stainless Steel 316 Hinge Switch with a mirror polished finish has been designed to be mounted for interlock position sensing of hinged moving guards.

The HS-SS has been designed to be fitted to the hinged axis of machine guard doors and provide a robust hinge function in addition to interlock position sensing.

It has positive opening contacts in accordance with IEC 60947-5-1 and after fitting the switch offers a very high degree of anti-tamper.

The HS-SS is used to mount the machine guard door into the machine guard frame and contact blocks are available in slow make/break 3NC 1NO, or 2NC 2NO.

Enclosures are protected to IP67 / IP69K with a low profile, hygienic design for washdown.

IP69K

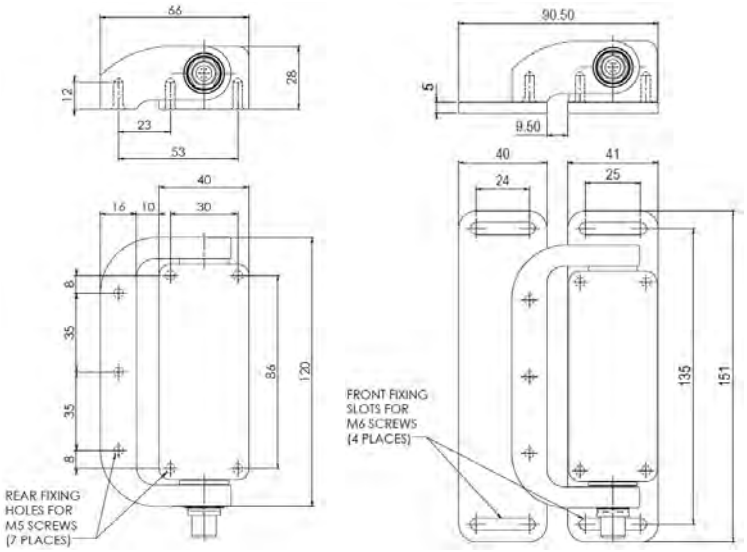
STAINLESS STEEL 316 MIRROR POLISHED HOUSING

OPERATION:

Operation of the switches is achieved by the rotating action of a cam and actuator to cause deflection of the switch plunger.

Positive actuation of the contacts is achieved at only 6 degrees of opening of the guard and can be adjusted up to 12 degrees if required upon installation.

DIMENSIONS:



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

Standards: ISO 14119, IEC 60947-5-1, EN60204-1
ISO 13849-1, EN62061

Technical Specification:

Mechanical Reliability B10d	1.5 x 106 operations at 100mA load
ISO 13849-1	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 (Ith)	10A
Overload protection fuse (fuse externally)	10A (FF)
Rated Insulation/Withstand Voltages	600VAC/2500VAC
Actuator Rotation for Positive Opening	6 degrees 0.5Nm (Type Zb contacts)
Maximum Approach Withdrawal Speed	600mm/s
Body Material	Stainless Steel 316 (mirror polished finish)
Enclosure Protection	IP67 / IP69K
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz+1Hz
	Excursion: 0.35mm, 1 octave/min
Conduit Entry	Various (see sales part numbers)
Fixing	7 x M5
Tightening Torque (all mounting bolts)	4Nm
Mounting Position	Any
Pollution Degree	3
Short Circuit Overload Protection	Fuse externally 10A (FF)

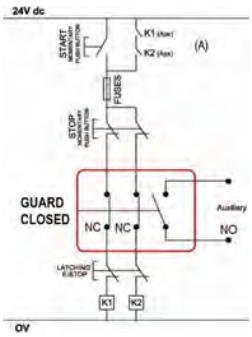
Blank Hinge

APPLICATION EXAMPLE:

Door Interlock - Dual Channel non-monitored.

This system shows interlock switch circuits configured to allow dual circuit direct feeds to contactor coils K1 and K2.

When the start button is pressed and then released, the auxiliary contacts (A) of contactors K1 and K2 maintain the feed to the contactor coils.



Opening of the Interlock Switch or depressing the E Stop will isolate power to the contactor coils.

Re-start can only occur providing the Guard is closed and the E Stop is reset. System is shown with the guards closed and machine able to start.

Function	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
NC3 or NO2 (optional)	4
NC3 or NO2 (optional)	3
NO (auxiliary)	2
NO (auxiliary)	8
NC1	7
NC1	1
NC2	6
NC2	5

SALES NUMBER	CONTACTS	CABLE LENGTH	ORIENTATION
350001	3NC 1NO	5m	Right Handed
350002	3NC 1NO	10m	Right Handed
350003	3NC 1NO	QC-M12	Right Handed
350004	2NC 2NO	5m	Right Handed
350005	2NC 2NO	10m	Right Handed
350006	2NC 2NO	QC-M12	Right Handed
350007	3NC 1NO	5m	Left Handed
350008	3NC 1NO	10m	Left Handed
350009	3NC 1NO	QC-M12	Left Handed
350010	2NC 2NO	5m	Left Handed
350011	2NC 2NO	10m	Left Handed
350012	2NC 2NO	QC-M12	Left Handed
350020	Blank Hinge Stainless Steel		
350025	Hinge Switch Mounting Brackets		

Hinge Interlock Safety Switch: **HINGECAM HC-3**

FEATURES:

IDEM's HC-3 is a member of the HINGECAM family which is a range of Compact Hinge Safety Interlock switches and has been designed to provide position interlock detection for moving guards.

They are designed to fit to the hinged axis of machine guard doors. The switch body fits to the door frame and the shaft fits to the door.

The rugged Stainless Steel shaft profile is designed to fix to the door and provide a positively operated not easily defeatable interlock mechanism. They can be mounted unobtrusively away from direct vision or contact.

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

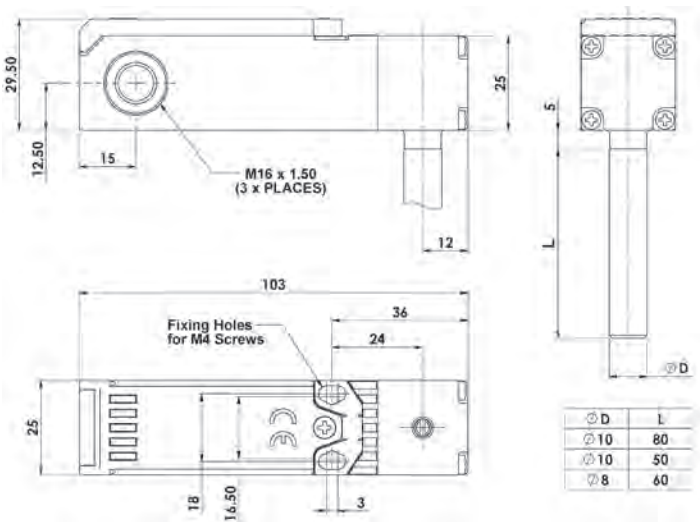
The head can be rotated through 90 degree increments to provide ease of mounting in 4 positions.

Contact blocks are replaceable.

Solid shafts are available as: 10mm dia. and 50 or 80mm long or as 8mm dia. and 60mm long.

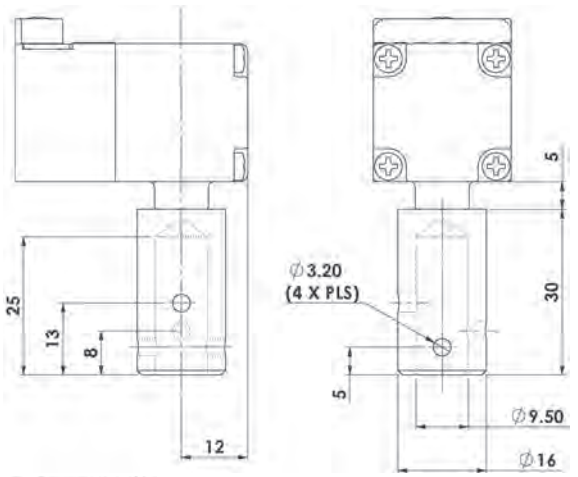
Hollow shafts also available (see dimensions opposite).

DIMENSIONS:

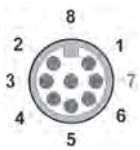


ØD	L
Ø10	80
Ø10	50
Ø8	60

HOLLOW SHAFT DIMENSIONS:



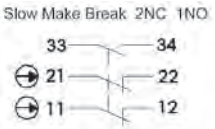
FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102



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

Standards:	ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL 60947-5-1
Safety Classification and Reliability Data:	
Mechanical Reliability B10d	2.5 x 10^6 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 (Ith)	10A
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Actuator Rotation for Positive Opening	7 degrees 0.5Nm
Housing Materials	UL Approved Glass Fibre Polyester
Shaft Material	Stainless Steel
Enclosure Protection	IP67
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min
Conduit Entry	3xM16
Fixing	2 x M4

CONTACT BLOCK:



SALES NUMBER	CONTACTS	SHAFT	M16	QC M12 8 WAY
HC-3	2NC 1NO	Dia. 10mm x 80mm	194001	194002
		Dia. 10mm x 50mm	194003	194004
		Dia. 8mm x 60mm	194005	194006
		Hollow Dia. 16mm x 30mm	194007	194008

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 194001-GC

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Hinge Interlock Safety Switch: **HINGECAM HC-SS**

FEATURES:

IDEM's HC-SS is a member of the HINGECAM family which is a range of Compact Hinge Safety Interlock switches and has been designed to provide position interlock detection for moving guards.

They are designed to fit to the hinged axis of machine guard doors. The switch body fits to the door frame and the shaft fits to the door.

The rugged Stainless Steel 316 body and Stainless Steel shaft profile is designed to fix to the door and provide a positively operated not easily defeatable interlock mechanism. They can be mounted unobtrusively away from direct vision or contact.

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

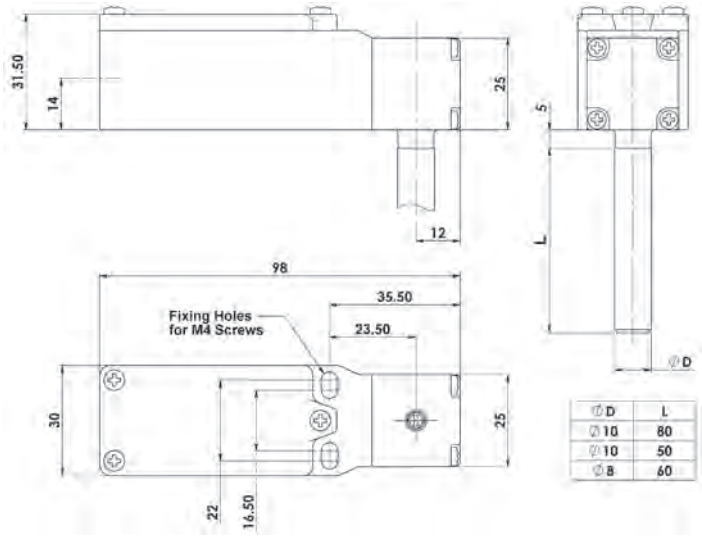
The head can be rotated through 90 degree increments to provide ease of mounting in 4 positions.

Contact blocks are replaceable.

Solid shafts are available as: 10mm dia. and 50 or 80mm long or as 8mm dia. and 60mm long.

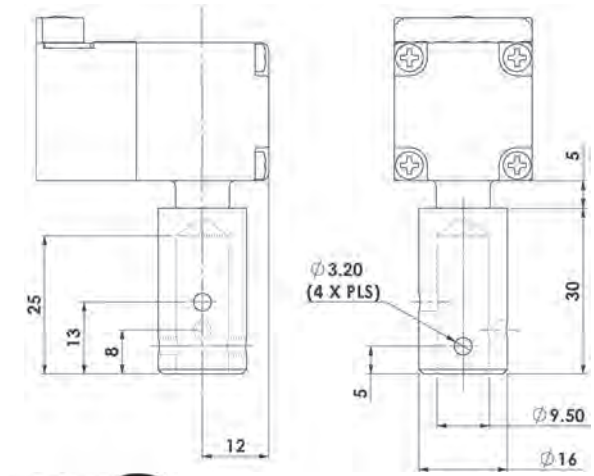
Hollow shafts also available (see dimensions opposite).

DIMENSIONS:



ØD	L
Ø10	80
Ø10	50
Ø8	60

HOLLOW SHAFT DIMENSIONS:

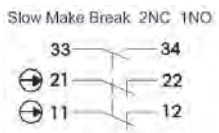


FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102

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

Standards:	ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL 60947-5-1
Safety Classification and Reliability Data:	
Mechanical Reliability B10d	2.5 x 10^6 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 (Ith)	10A
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Actuator Rotation for Positive Opening	7 degrees 0.5Nm
Housing Materials	Stainless Steel 316
Shaft Material	Stainless Steel
Enclosure Protection	IP69K
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min
Conduit Entry	Various (see Sales Number)
Fixing	2 x M4

CONTACT BLOCK:



SALES NUMBER	CONTACTS	SHAFT	M20	1/2" NPT	QC M12 8 WAY
HC-SS	2NC 1NO	Dia. 10mm x 80mm	195001	195002	195003
		Dia. 10mm x 50mm	195004	195005	195006
		Dia. 8mm x 60mm	195007	195008	195009
		Hollow Dia. 16mm x 30mm	195010	195011	195012

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 195001-GC

Hinge Interlock Safety Switch: **IDIS-2**

FEATURES:

IDEM IDIS-2 Compact Hinge Safety Interlock switches are designed to provide position interlock detection for moving guards.

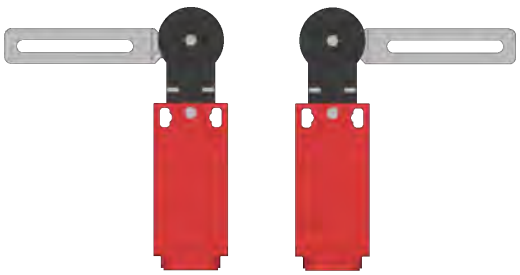
They are designed to fit to the hinged axis of machine guard doors. The switch body fits to the door frame and the leaf actuator fits to the door.

The rugged Stainless Steel actuator profile is designed to fix to the door and provide a positively operated not easily defeatable interlock mechanism. They can be mounted unobtrusively away from direct vision or contact.

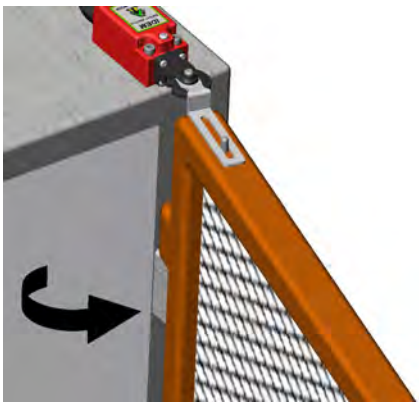
The compact body and 22mm fixing profile make them easy to install where space is restricted.

The head can be rotated through 90 degree increments to provide ease of mounting in 4 positions.

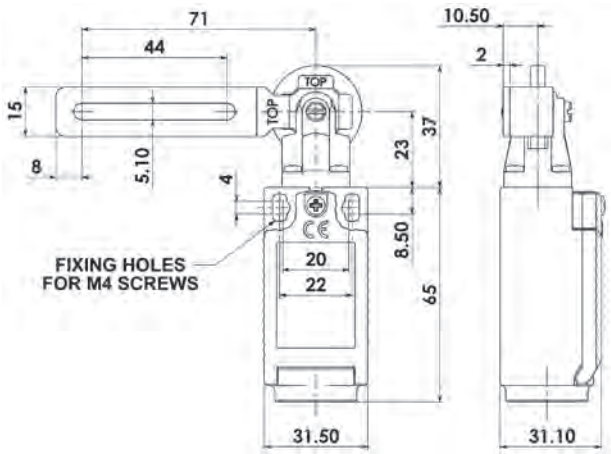
Contact blocks are replaceable with optional slow or snap break operation.



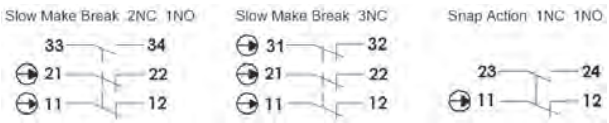
Universal fitting - Opening Angle 180 degrees for swing doors



DIMENSIONS:



CONTACT BLOCK OPTIONS:



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

Standards: ISO14119 EN60947-5-1 EN60204-1
ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d	2.5 x 10^6 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 (Ith)	10A
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Actuator Rotation for Positive Opening	7 degrees 0.5Nm
Materials	UL Approved Glass Fibre Polyester
Enclosure Protection	IP67
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min
Conduit Entry	Various (See Sales Number)
Fixing	2 x M4

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

SALES NUMBER	CONTACTS	M20	1/2" NPT	QC M12 8 WAY
Universal Actuator	2NC 1NO	192001	192002	192022
Universal Actuator	3NC	192004	192005	192023
Universal Actuator	1NC 1NO Snap	192007	192008	192024

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 192001-GC

SENSORMATIC SPECIALIST&SOLUTIONS Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Tel. 051 6353 511 - www.sensormatic.it

Hinge Interlock Safety Switch: **HINGECAM HC-1**

FEATURES:

IDEM's HC-1 is a member of the HINGECAM family which is a range of Compact Hinge Safety Interlock switches and has been designed to provide position interlock detection for moving guards.

They are designed to fit to the hinged axis of machine guard doors. The switch body fits to the door frame and the shaft fits to the door.

The rugged Stainless Steel shaft profile is designed to fix to the door and provide a positively operated not easily defeatable interlock mechanism. They can be mounted unobtrusively away from direct vision or contact.

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

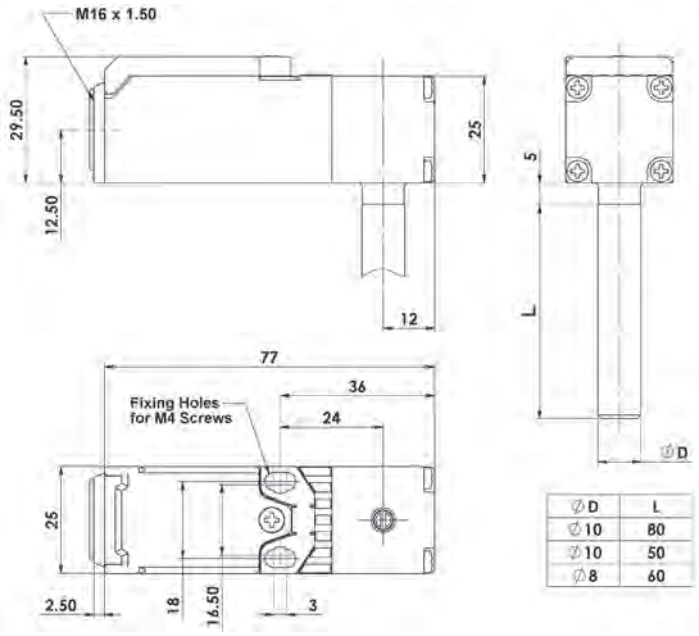
The head can be rotated through 90 degree increments to provide ease of mounting in 4 positions.

Contact blocks are replaceable.

Solid shafts are available as: 10mm dia. and 50 or 80mm long or as 8mm dia. and 60mm long.

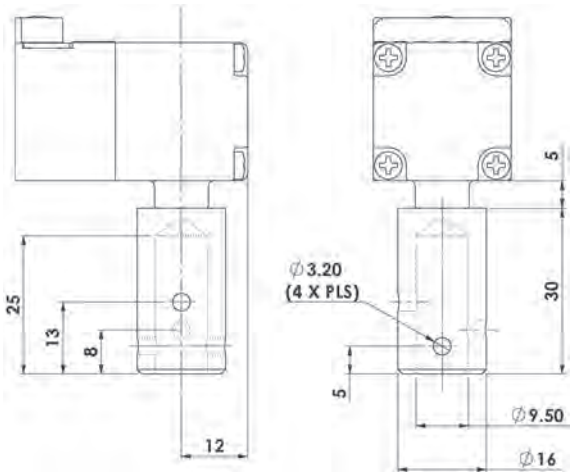
Hollow shafts also available (see dimensions opposite).

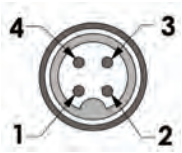
DIMENSIONS:



ØD	L
Ø10	80
Ø10	50
Ø8	60

HOLLOW SHAFT DIMENSIONS:





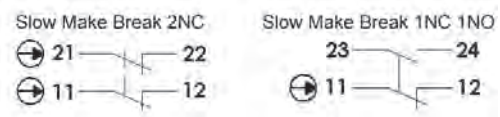
Switch Circuit	Quick Connect (QC) M12 4 Way Male (on Flying Lead 250mm) Pin View from Switch
11/12	1 3
21/22 or 23/24	4 2

Standards: ISO14119 EN60947-5-1 EN60204-1
ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d	2.5 x 10^6 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 (Ith)	10A
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Actuator Rotation for Positive Opening	7 degrees 0.5Nm
Housing Materials	UL Approved Glass Fibre Polyester
Shaft Material	Stainless Steel
Enclosure Protection	IP67
Operating Temperature	-25C +80C
Vibration	IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min
Conduit Entry	M16
Fixing	2 x M4

CONTACT BLOCK OPTIONS:



SALES NUMBER	CONTACTS	SHAFT	M16	QC M12 4 WAY
HC-1	2NC	Dia. 10mm x 80mm	193001	193002
		Dia. 10mm x 50mm	193003	193004
		Dia. 8mm x 60mm	193005	193006
		Hollow Dia. 16mm x 30mm	193007	193008
HC-1	1NC 1NO	Dia. 10mm x 80mm	193009	193010
		Dia. 10mm x 50mm	193011	193012
		Dia. 8mm x 60mm	193013	193014
		Hollow Dia. 16mm x 30mm	193015	193016

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 193001-GC