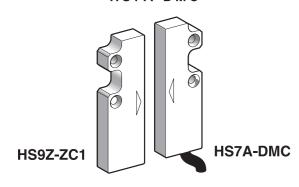
INSTRUCTION SHEET

Coded Magnetic Switches HS7A-DMC



Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user.

The products have been designed in accordance with the standards in effect: IEC 60947-5-1, EN 292, EN 60204-1 to ensure the safety of machine operators and machine operating reliability, and have obtained the UL/CSA certifications

SAFETY NOTE

∴ CAUTION

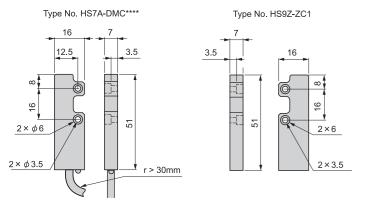
The use of the safety relay modules is required for the monitoring of the coded magnetic safety switches

When correctly installed and connected to the HR1S safety relay modules they produce a category 4 control circuit per EN ISO 13849-1 (2 redundant contacts monitored by one HR1S safety relay module or FS series safety controller. See user's manual for wiring with safety comtroller).

Use the safety switches for an interlocking device in compliance with laws and regulations of the country in which it is being used.

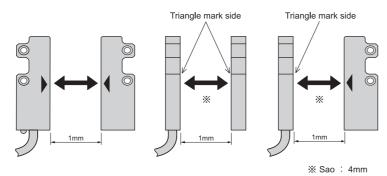
1 Specifications Conforming to standards IEC / EN 60947-5-1 EN ISO / ISO 14119 UL 508, CSA C22.2 No.14 Interlocking device Type Type 4 interlocking device / low level coded actuator (EN ISO 14119) / the level of coded Ambient air temperature Operation: -13° F to 185° F(-25°C+85°C) (no freezing) Storage: -40° F to 185° F(-40°C+85°C) (no freezing) 10 gn (10-150 Hz) conforming to IEC 60068-2-6 Vibration resistance Shock resistance 30 gn (11 ms) conforming to IEC $\overline{\text{60068-2-7}}$ Protection against electric shock Class II as per IEC 60536 Degree of protection IP67 3, conforming to IEC /EN 60947-5-1 Degree of pollution Ue = 24VDC Rated operating chatacteristics le = 100 mA Protection 500 mA gG (gL) cartridge fuse (using without safety relay module (use type CC in the United States) ≤10% Repeat accuracy Hysteresis <20% Frequency of operating cycle 150 Hz 0,1V without LED; 2,4V with LED Drop out voltage I=10mA 1V without LED; 4,2V with LED Functional switches Closing - Opening By cable 4 x AWG 23 (0.25mm²) Cable connection length 78.74 in, 196.85 in or 393.70 in (2m, 5m, 10m), depending on model

2 Dimensions (mm)



3 Operation

· Functional directions - Minimum distance between the safety switch and the magnet



· Contact status -Contact closed (1) -Contact open (0) -Transient state · Operation chart HS7A-DMC59** (mm)

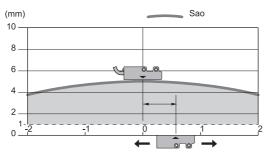
Sao: Assured Operation Distance Sar : Assured Release Distance

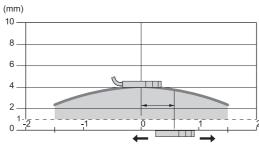
(Minimum Distance) 1 5(Sao) 15(Sar) RN/RU

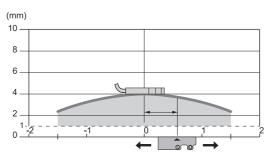
HS7A-DMC79** (mm) (Minimum Distance) 1 5(Sao) 15(Sar) RN/RU WH/BK €

· Sensing area

WH/BK

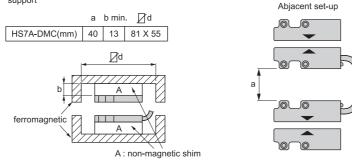


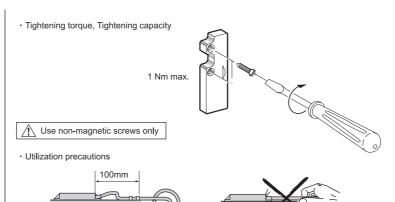




4 Mounting

· Required arrangement with ferromagnetic mouting



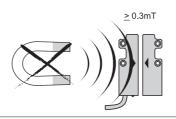


Adjustment of coded magnetic switches The safety switch must not be used as a mechanical stop for your mobile protector, or be adjusted using a hammer

The switch and actuator should be aligned by fitting of each shapes.



♠ CAUTION



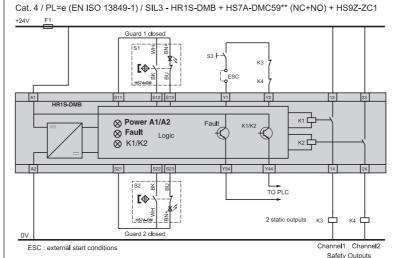
5 Wiring diagram

∴ WARNING

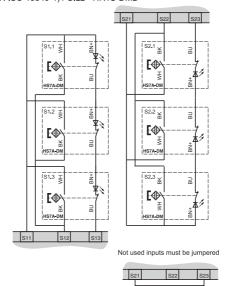
HAZARDOUS VOLTAGE Disconnect all power before working on equipment.

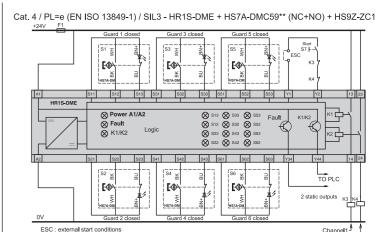
Electric shock will result in death or serious injury.

* Illustration of contacts with magnet present

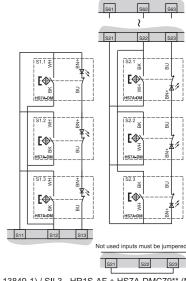


Cat. 3 / PL=d (EN ISO 13849-1) / SIL2 - HR1S-DMB

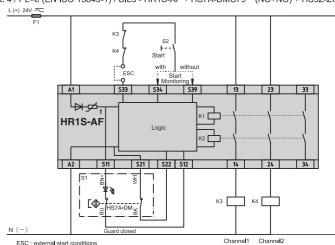




Cat. 3 / PL=d (EN ISO 13849-1) / SIL2 - HR1S-DME



Cat. 4 / PL=e (EN ISO 13849-1) / SIL3 - HR1S-AF + HS7A-DMC79** (NO+NO) + HS9Z-ZC1



Safety Outputs

Connectable H37A-Divic per imput.										
	HS7A-E	OMC59**	HS7A-DMC79**							
	without LED	with LED	without LED	with LED						
HR1S-DMB/DME	6	3								
HR1S-AF			6	1						

Гуре							
Type No.	LED	Cable	Contact	Type No.	LED	Cable	Contact
HS7A-DMC5902	without	2m	NO	HS7A-DMC7902	without	2m	
HS7A-DMC5912	with			HS7A-DMC7912	with		NO + NO
HS7A-DMC5905	without	5m		HS7A-DMC7905	without	5m	
HS7A-DMC5915	with			HS7A-DMC7915	with		
HS7A-DMC59010	without	10m		HS7A-DMC79010	without	10m	
HS7A-DMC59110	with			HS7A-DMC79110	with		

IDEC CORPORATION

DECLARATION OF CONFORMITY

We, IDEC CORPORATION 6-64, hishimiyahara 2-chome Yodogawa-ku, Osaka 532-0004, Japan declare under our sole responsibility that the product:
Description: Non-contact Safety Switch

Series Name: HS7A Series
Model No.: HS7A-DMC59** (** = 02, 12, 05, 15, 010, or 110), HS7A-DMC79** (** = 02, 12, 05, 15, 010, or 110)

Model No.: HS7A-DMC59" (** = 02, 12, 05, 15, 010, or 110), HS7A-DMC79" (** = 02, 12, 05, 15, 010, or 110) to which this declaration relates is in conformity with the EC Directive on the following standard(s) or other normative document(s). In case of alteration of the product, not agreed upon by us, this declaration will lose its validity.

Applicable EC Directive: Low Voltage Directive (2006/95/EC)

EC Directive: Low Voltage Directive (2006/95/EC)

Achieved Technique (2006/95/EC)

Applicable Standard(s): EN ISO 13849-1, EN ISO 14119, EN 60204-1, EN 62061, EN 60947-5.1 tive in EU : IDEC ELEKTROTECHNIK GmbH Heselstuecken 8, 22453 Hamburg, Germany W916343840111 A06

2/2

http://www.idec.com

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101-GS 505-101-WS 505-201W 505-392W 505-90I 507-381BB 507-381BG RSW-21A-I ODC-56B TSW-2T RI-90GP1020 FF6-21-DC
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