

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

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

SAFETY NOTE

MARNING

UNINTENDED EQUIPMENT OPERATION

HS7A-DMP must be used only in association with a safety control unit. Never use HS7A-DMP without safety control unit.

Failure to follow these instructions can result in death, serious injury

or equipment damage.

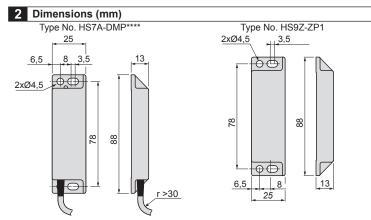
A CAUTION

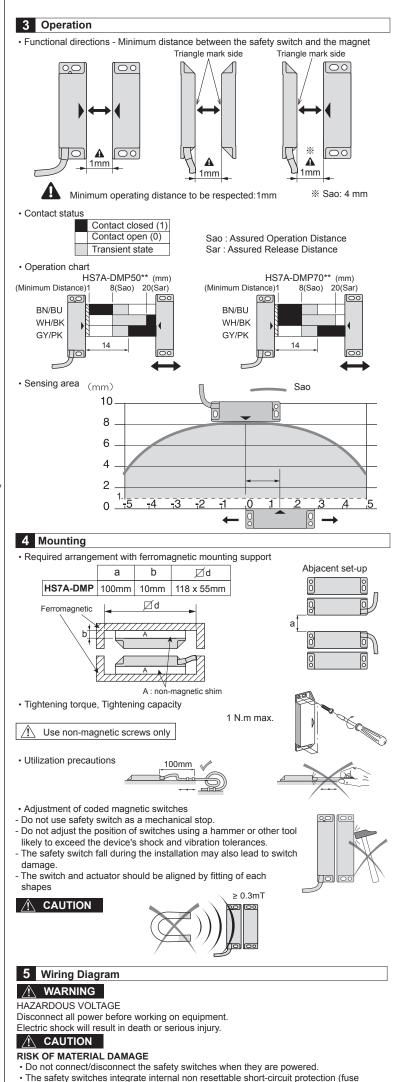
The use of the safety relay modules is required for the monitoring of the coded magnetic safety switches.

The products can support up to category 4/PL e (EN ISO13849-1) by combining with a safety control unit*. See instruction sheet and user's manual for wiring with safety control unit. Our products include HR5S (Category 2/PL d), HR6S, FS1A etc..

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

1 Specificatio	ns					
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				
/ the level of coded		/ low level coded (EN ISO 14119)				
Ambient air temperature		Operation : -13°F to 185°F(-25°C to +85°C) (no freezing)				
		Storage : -40°F to 185°F(-40°C+85°C) (no freezing)				
Vibration resistance		10 gn (10-150 Hz) conforming to IEC 60068-2-6				
Shock resistance		30 gn (11 ms) conforming to IEC 60068-2-7				
Protection against electric shock		Class II as per IEC 60536				
Degree of protection		IP67				
Degree of pollution		3, conforming to IEC / EN 60947-5-1				
Rated operating chatacteristics		Ue = 24VDC				
		le = 100 mA				
Protection		500 mA gG (gL) cartridge fuse				
(out of F1 fuse for th	ne safety	(use a UL-recognized Type CC fuse in the				
module protection)		United States). Optionally, in series with each switch				
		contact.				
Repeat accuracy		≤10%				
Hysteresis		≤20%				
Frequency of operating cycle		150 Hz				
Drop out voltage	I=10mA	0,1V without LED; 2,4V with LED				
	l=100mA	1V without LED; 4,2V with LED				
Functional switches		Closing - Opening				
Cable connection		By cable 6 x AWG 23 (0.25mm ²)				
		length 78.74 in, 196.85 in				
		(2m, 5m), depending on model				

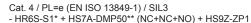


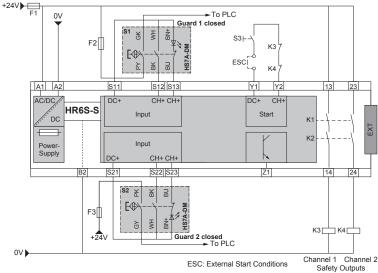


resistance). Adding an external fuse (500mA gG) in series with each switch contact can

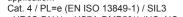
avoid internal protection damage in case of misuse.

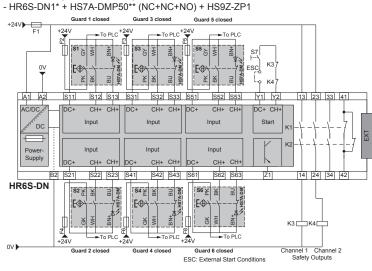
The following Category, PL and SIL are examples. They must be evaluated according to related standards (ISO 14119, etc.) after confirming the usage conditions in the actual application



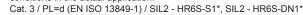


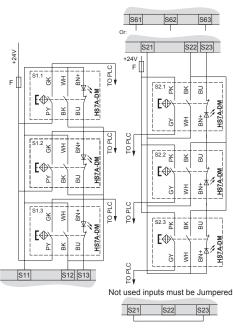
The following Category, PL and SIL are examples. They must be evaluated according to related standards (ISO 14119, etc.) after confirming the usage conditions in the actual application





The following Category, PL and SIL are examples. They must be evaluated according to related standards (ISO 14119, ISO TR 24119 etc.) after confirming the usage conditions in the actual application

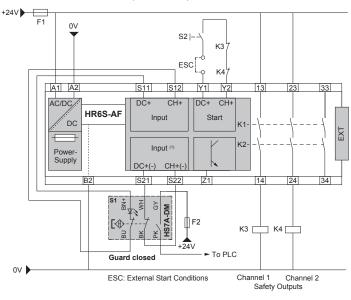




The following Category, PL and SIL are examples. They must be evaluated according to related standards (ISO 14119, etc.) after confirming the usage conditions in the actual application

Cat. 4 / PL=e (EN ISO 13849-1) / SIL3

- HR6S-AF1* + HS7A-DMP70** (NO+NO+NC) + HS9Z-ZP1



Connectable HS7A-DMC per Input.

	HS7A-	DMP50**	HS7A-DMP70**		
	without LED	with LED	without LED	with LED	
HR6S-S/DN/AF	6	3	6	3	

Туре

Type No.	LED	Cable	Contact	Type No.	LED	Cable	Contact
HS7A-DMP5002	without	2m	NO	HS7A-DMP7002	without	2m	NO
HS7A-DMP5012	with		+	HS7A-DMP7012	with		+
HS7A-DMP5005	without	5m	NC +	HS7A-DMP7005	without	5m	NO +
HS7A-DMP5015	with		NC	HS7A-DMP7015	with	IIIC	NC

IDEC CORPORATION

EU declaration of conformity Identification of the Product: Coded Magnetic Switch

Name and address of Manufacturer: IDEC CORPORATION 2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004 Japan

Name and address of the authorized representative: APEM SAS 55, Avenue Edouard Herriot BP1, 82303

Caussade Cedex, France

This declaration of conformity is issued under the sole responsibility of the manufacturer.

 Object of the declaration:
 Series

 Model No.: HS7A-DMC59** (** = 02, 12, 05, 15, 010, or 110),
 HS7A-DMC79** (** = 02, 12, 05, 15, 010, or 110)
The object of the declaration described above is in conformity with the relevant EU harmonization legislation:

2006/42/EC Machinery Directive 2014/35/EU Low Voltage Directive

2014/30/EU Electromagnetic Compatibility Directive 2011/65/EU and (EU) 2015/863 RoHS Directive

Applied Union harmonized legislation and references to the relevant harmonization standards used or references the other technical specifications in relation to which conformity is declared

EN ISO 13849-1:2015, EN ISO 14119:2013, EN 60204-1:2018, EN 60947-5-1:2017+AC:2020,

EN62061:2005+AC:2010+A1:2013+A2:2015, EN IEC 63000:2018

UK declaration of conformity Identification of the Product: Coded Magnetic Switch

Name and address of Manufacturer: IDEC CORPORATION

2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004 Japan Name and address of the authorized representative: APEM COMPONENTS LIMITED.

Drakes Drive, Long Crendon, Buckinghamshire,

HP18 9BA, UK

This declaration of conformity is issued under the sole responsibility of the manufacturer

Object of the declaration: Series Name - HS7A Series

Model No.: HS7A-DMC59** (** = 02, 12, 05, 15, 010, or 110), HS7A-DMC79** (** = 02, 12, 05, 15, 010, or 110) The object of the declaration described above is in conformity with the relevant UK harmonization legislation

S.I. 2008 No.1597 Supply of Machinery (Safety) Regulations 2008

S.I. 2016 No. 1101 Electrical Equipment (Safety) Regulations 2016 S.I. 2016 No.1091 Electromagnetic Compatibility Regulations 2016

S.I. 2012 No.3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The products conform with the following standards. : BS EN ISO 13849-1:2015, BS EN ISO 14119:2013, BS EN 60204-1:2018, BS EN 60947-5-1:2017 + AC:2020, BS EN 62061:2005 + AC:2010 + A1:2013 + A2:2015, BS EN IEC 63000:2018

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http://www.idec.com