

## Description

# Legacy General Purpose Relays

## 782H Hazardous Location Series

### 4PDT 3 A and 5 A



UL Listed when used with corresponding sockets



782H Hazardous Location Relay

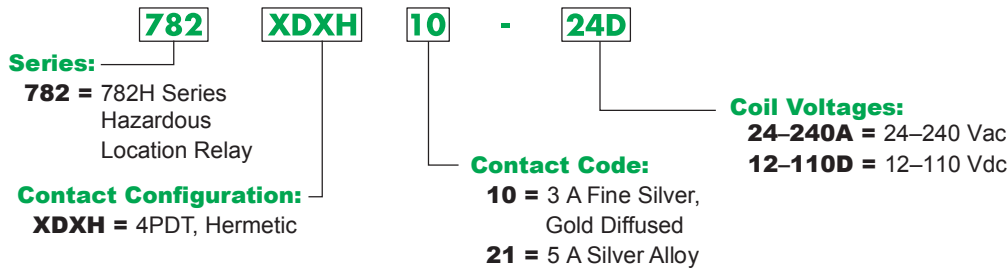
## Description

The hermetically sealed 782H Series relays comply with UL Class I Division 2 requirements for use in hazardous locations.

Feature	Benefit
Hermetically sealed	Compliance with UL Class I Division 2 for Hazardous Locations Groups A, B, C, and D; sealed for wash down conditions
3 A / 5 A max. switching current	Ideal choice for automation and control applications
4PDT contact configuration	Simultaneous control of up to 4 separate circuits
Screw-mounting options	Direct mounting
Socket-mounting option	Simplified installation and maintenance; use of protection modules, hold-down clips, and other accessories
Gold-flashed contacts	Reduced contact oxidation and increased shelf life

Contact Rating	Contact Configuration	Nominal Voltage	Coil Resistance (Ω)	Standard Part Number
3 A	4PDT	120 Vac, 50/60 Hz	3,900	782XDXH10-120A
		12 Vdc	160	782XDXH10-12D
		24 Vdc	650	782XDXH10-24D
		110 Vdc	11,000	782XDXH10-110D
5 A	4PDT	120 Vac, 50/60 Hz	3,900	782XDXH21-120A
		12 Vdc	160	782XDXH21-12D
		24 Vdc	650	782XDXH21-24D

## Part Number Explanation



For more information, contact Customer Service (1-847-441-2540).

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## 782H Hazardous Location Series

### 4PDT 3 A and 5 A

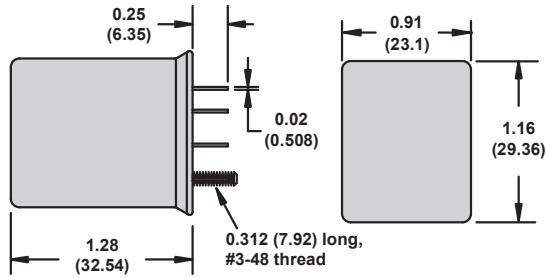
## Specifications

Part Number	782XDXH21	782XDXH10
<b>Contact Characteristics</b>		
Terminal Style	Blade	Blade
Contact Material	Silver Alloy	Fine Silver
Load Type	Standard	Low Level
Contact Configuration	4PDT	4PDT
Carrying Current	5 A	3 A
Maximum Switching Voltage	300 V	300 V
Rated Switching Current (Conforming to IEC AC-1)	5 A at 240 Vac (N.O. or N.C. Only)	3 A at 240 Vac (N.O. or N.C. Only)
Rated Switching Current (Conforming to UL and ANSI/ISA 12.12.01)	Resistive	5 A at 120 Vac, 50/60 Hz, 100 k cycles 5 A at 240 Vac, 50/60 Hz, 100 k cycles 5 A at 30 Vdc, 100 k cycles
	Motor	—
Minimum Switching Requirement	100 mA at 5 Vdc	10 mA at 5 Vdc
<b>Coil Characteristics</b>		
Maximum Operating Voltage	110% (AC/DC)	
Maximum Pickup Voltage	80% (AC); 75% (DC)	
Drop-out Voltage Threshold	30% (AC); 10% (DC)	
Average Consumption	1.2 VA (AC); 0.9 W (DC)	
<b>General Characteristics</b>		
Electrical Life at Rated Load	100,000 operations	
Mechanical Life (Unpowered)	10,000,000 operations	
Operating Time	20 ms	
Dielectric Strength	Between Coil and Contact (AC)	1600 V (rms)
	Between Poles (AC)	1600 V (rms)
Ambient Air Temperature Around the Device	Storage	-60 to +85 °C (-76 to +185 °F)
	Operation	-45 to +70 °C (-49 to +158 °F)
Temperature Code for Hazardous Locations	T5: AC coil +40 °C (+40 °F), DC coil +70 °C (+158 °F)	
Vibration Resistance—In Operation	6 gn at 10–55 Hz	
Shock Resistance	10 gn	
Degree of Protection	Hermetically sealed	
Weight	45 g (1.59 oz)	
Agency Approvals	UL with socket, UR (E209950), CE, CSA (LR40787), RoHS	

Note: Actual product performance may vary depending on the application and environmental conditions.

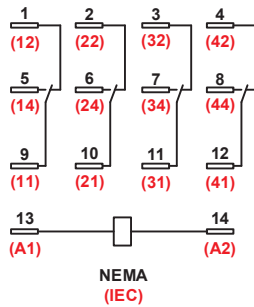
### Dimensions, in. (mm)

782H



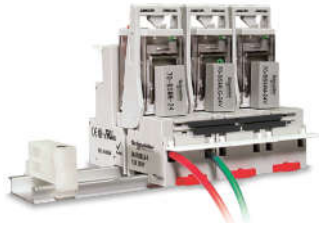
### Wiring Diagrams

4PDT



# Legacy General Purpose Relays

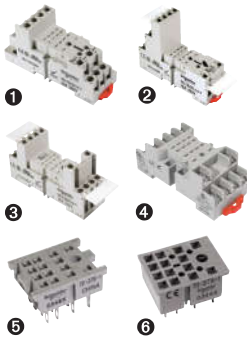
## 782H Hazardous Location Series Accessories



### Description

Optional sockets offer customizable solutions including protection modules, hold-down clips, and ID tags. Sockets are finger-safe according to IP20, and compatible with DIN rail or panel mounting.

### Relay Accessories



Description	Function	For Use with Relays	Pkg. Min.	Standard Part Number
Socket 1	DIN or panel mounting with screw terminals and clamping plates	782XDXH	10	70-782D14-1
Socket 2	DIN or panel mounting with elevator terminals		10	70-782EL14-1
Socket 3	DIN or panel mounting with rising elevator box terminals		10	70-782E14-1
Socket 4	DIN or panel mounting with screw terminals and clamping plates		10	70-461-1
Socket 5	Solder terminals for chassis mount		10	70-378-1
Socket 6	Printed circuit terminals for PCB mount		10	70-379-1

### Socket Accessories



Description	Function	For Use with Sockets	Coil Voltage	Pkg. Min.	Standard Part Number
Metal Spring Clip 1	Securing the relay in the socket	70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-461-1, 70-378-1, 70-379-1	—	10	16-1342
Plastic ID Tag 2	Write-on plastic labels	70-782E14-1, 70-782EL14-1	—	10	16-782FT-1
Insulated Coil Bus Jumper System 3	Wireless socket connection	70-782EL14-1	—	10	16-782CBJ-1
Extruded Aluminum DIN Rail, 1 m (39.37 in.) 4	Quick installation and removal of sockets	70-782D14-1, 70-782EL14-1, 70-782E14-1	—	10	16-700DIN
DIN Rail End Clip 4	Holding the sockets firmly in place on a DIN rail	—	—	10	16-DCLIP-1