

Aug. 1. 2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10°C TO 60 °C ⁽¹⁾		
	VOLTAGE	50 V AC	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. ⁽²⁾		
	CURRENT	0.3 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽¹⁾		
SPECIFICATIONS						
ITEM	TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION						
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x
MARKING	CONFIRM VISUALLY.				x	x
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE [EIA-364-23]	100 mA and 20 mv OPEN CIRCUIT MAX.		8mm height : 80 mΩ MAX. 9mm height : 85 mΩ MAX. 10mm height : 90 mΩ MAX.		x	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC.		100 MΩ MIN.		x	—
VOLTAGE PROOF [EIA-364-20]	150 V AC FOR 1 MINUTE.		NO FLASHOVER OR BREAKDOWN.		x	—
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED BY APPLICABLE CONNECTORS.		INSERTION FORCE: 72 N MAX. WITHDRAWAL FORCE: 3 N MIN.		x	—
MECHANICAL OPERATION [EIA-364-09]	50 TIMES INSERTIONS AND EXTRACTION.		① CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G ² /Hz OVERALL rms G: 3.1 Grms FOR 15 MINUTES IN THREE DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		x	—
SHOCK [EIA-364-27]	490 m/s ² , DURATION OF PULSE: 11 ms 3 EACH DIRECTION, 3 AXIS.				x	—
ENVIRONMENTAL CHARACTERISTICS						
THERMAL SHOCK [EIA-364-32]	TEMPERATURE: -55 → 15 ~ 35 → 85 → 15 ~ 35 °C TIME: 30 → 5 → 30 → 5 min. UNDER 10 CYCLES		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		x	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES.				x	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105 °C, 1000 hr.				x	—
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% Cl ₂ : 10 ppb, NO ₂ : 200 ppb, H ₂ S : 10 ppb, SO ₂ : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS.		1) CONTACT RESISTANCE CHANGE: 20 mΩ OR LESS 2) NO HEAVY CORROSION.		x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
REMARK ⁽¹⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. ⁽²⁾ NO DEW CONDENSATION IS PERMITTED.			APPROVED	TM. MATSUO	17. 07. 20	
			CHECKED	MK. EZAKI	17. 07. 20	
			DESIGNED	AS. MATSUZAWA	17. 07. 20	
			DRAWN	AS. MATSUZAWA	17. 07. 20	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-361677-03-00		
	SPECIFICATION SHEET		PART NO.	FX10-120IP-8H (03)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL608-0017-3-03		1/1