

Mar.1.2025 Copyright 2025 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.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
APPLICABLE STANDARD											
RATING	Operating Temperature Range	-55°C to 105°C (Note1)				Storage Temperature Range	-10°C to 60°C (Note3)				
	Operating Humidity Range	20% to 80% (Note2)				Storage Humidity Range	40% to 70% (Note3)				
	Voltage	100V AC/DC				Applicable Connector	KW30-4S-1H(###) KW30-4S-1V(###)				
	Current	AWG 32 : 0.8A AWG 30 : 1.0A AWG 28 : 1.0A				Applicable Contact	KW30-2830PCFA(###) KW30-3032PCFA(###) KW30A-2830PCFA(###)				
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS				QT	AT
CONSTRUCTION											
General Examination		Visually and by measuring instrument.				According to drawing.				0	0
Marking		Confirmed visually.								0	0
ELECTRICAL CHARACTERISTICS											
Contact Resistance		20mV MAX, 10mA (DC or 1000Hz).				30 mΩ MAX.				0	-
Millivolt Level Method											
Insulation Resistance		250 V DC.				100 MΩ MIN.				0	-
Voltage Proof		500 V AC for 1 min.				No flashover or breakdown.				0	-
MECHANICAL CHARACTERISTICS											
Mechanical Operation		30 times insertion and extraction.				①Contact resistance : 50mΩ MAX ②No damage, crack or looseness of parts.				0	-
Mating and unmating force		It takes out and inserts with a conformity connector				①Insertion Force : 14N MAX ②Extraction Force : 1.5N MIN				0	-
Contact extraction force		Pull out the cable after housing fixation.				7N MIN				0	-
Vibration		Frequency 10 to 55 Hz, single amplitude 1.52 mm, at 2 hours for 3 direction.				①No electrical discontinuity of 1 μs. ②No damage, crack or looseness of parts.				0	-
Shock		Acceleration 490 m/s ² duration of pulse 11 ms at 3times for 3 directions.								0	-
ENVIRONMENTAL CHARACTERISTICS											
Damp Heat (Steady State)		Exposed at 40 ± 2 °C , humidity 90 to 95 % , 240 h.				①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN. ③No damage, crack or looseness of parts.				0	-
Rapid Change of Temperature		Temperature -55 °C → 105 °C Time 30min → 30min 25 Cycles. (The transferring time of the tank is 2 to 3 MIN) (After leaving the room temperature for 1 to 2h.)				①Contact resistance : 50 mΩ MAX. ②Insulation resistance : 100MΩ MIN. ③After Voltage proof test No flashover or breakdown. ④No damage, crack or looseness of parts.				0	-
Dry Heat		Exposed at 105±2 °C, 250h								0	-
Cold		Exposed at -55±3 °C, 250h								0	-
Corrosion, Salt Mist		Exposed in 35±2 % salt water spray for 48h.				Contact resistance : 50 mΩ MAX.				0	-
Hydrogen Sulfide		Exposed in 40±2°C, humidity 80±5% 3±1 ppm for 96h.				Contact resistance : 50 mΩ MAX.				0	-
<p>Note 1: Include the temperature rising by current.</p> <p>Note 2: No condensing</p> <p>Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.</p>											
Remark					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					J.H.SHIN	J.H.SHIN	S.M.LIM	S.M.LIM			
					22.11.14	22.11.14	22.11.14	22.11.14			
Unless otherwise specified, refer to IEC 60512.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET				PART NO. KW30-4P-1C(800)			
CODE NO.(OLD) CL			DRAWING NO. ELC4-633958			CODE NO. CL 6669-0033-0-800			1 1		