



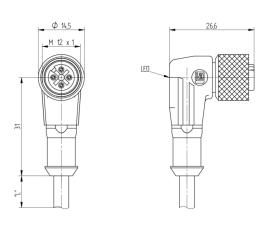
Product: RKWT/LED P 4-07 ☑

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, angled, 4-pin, A-coded, translucent body, 10-30 V DC, 4 A, with 3xLEDs (PNP); PVC orange cable, 4-wires, 0.25 mm²

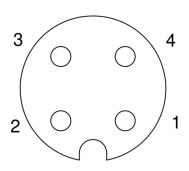
Product Description

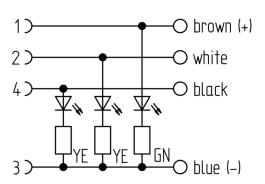
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Technical Drawing



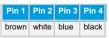






Technical Specifications

Face View



Technical Data

Product Family:

Sensor / Actuator Connectors

Connector Type: Cordset, single ended Type of Contact / Gender: Female Connector Design: Angled Number of Pins: 4 Coding: A Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10-9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C -+90 °C Operating Temperature (UL): max. +50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Product Sub Family:	M12 Standard
Type of Contact / Gender: Female Connector Design: Angled Number of Pins: 4 Coding: A Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage: 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C -+ 90 °C Operating Temperature (UL): max. +50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Brand:	Lumberg Automation
Connector Design: Angled Number of Pins: 4 Coding: A Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Connector Type:	Cordset, single ended
Number of Pins: 4 Coding: A Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10°9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Type of Contact / Gender:	Female
Coding: A Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Connector Design:	Angled
Shielding: Unshielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Number of Pins:	4
Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - +90 °C Operating Temperature (UL): max. +50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Coding:	A
Rated Voltage: 30 V Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Shielding:	Unshielded
Rated Voltage (UL): 10-30 V DC Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10/9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Attachment Type:	Coupling Nut
Rated Impulse Voltage: 0.8 kV Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Rated Voltage:	30 V
Operating Voltage: 10-30 V DC Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Rated Voltage (UL):	10-30 V DC
Rated Current*: 4 A Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Rated Impulse Voltage:	0.8 kV
Rated Current (UL)*: 2.5 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Operating Voltage:	10-30 V DC
Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Rated Current*:	4 A
Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Rated Current (UL)*:	2.5 A
Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - +90 °C Operating Temperature (UL): max. +50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Contact Resistance:	≤ 10 mOhm
Ambient Temperature (Operation)*: - 40 °C - + 90 °C Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Insulation Resistance:	> 10^9 Ohm
Operating Temperature (UL): max. + 50 °C Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Mating Cycles:	≤ 100
Protection Degree / IP Rating**: IP65, IP67 Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Design Standard: IEC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Operating Temperature (UL):	max. + 50 °C
Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)	Protection Degree / IP Rating**:	IP65, IP67
	Design Standard:	IEC 61076-2-101
Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1)	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	TPU
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	FKM, green

Protection Circuitry

Function Indicator: 3xLEDs (PNP)

Additional Technical Data

Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	007
Conductor Size:	0.25 mm ²
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	>1 M
Conductor material:	Cu
Cable Jacket Material:	PVC
Cable Jacket Color:	orange
Cable Diameter D:	ø 5.0 ± 0.2 mm
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 1.35 mm

Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	+ 5 °C - + 90 °C (UL: + 80 °C)
Ambient Temperature (Drag Chain Inst):	+ 5 °C - + 60 °C
UL Cable Type:	AWM: 2464
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1
Cable Characteristics:	Free of lacquer wetting disturbing substances; Exclusion of silicone

Approvals

UL-File:	E315587	
UL:	UL 2238; cURus	

Safety & Environmental Compliance

		1
RoHS Compliant:	yes	l

Resistances

Oil Resistance:	Good chemical and oil resistance

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description	Cable Length	Rated Current
11538	RKWT/LED P 4-07/10 M	10 m	4 A
11539	RKWT/LED P 4-07/2 M	2 m	4 A
11540	RKWT/LED P 4-07/5 M	5 m	4 A
29855	RKWT/LED P 4-07/25 M	25 m	4 A
46364	RKWT/LED P 4-07/15 M	15 m	4 A
65774	RKWT/LED P 4-07/20 M	20 m	4 A
108093	RKWT/LED P 4-07/30 M	30 m	4 A

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