



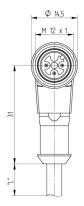
# Product: RSWT 3-RKWT/LED A 4-3-224 ☑

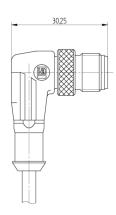
Sensor/Actuator Double-Ended Cordset: Male angled A-coded translucent 4-pin M12 Standard connector to female angled A-coded translucent 4-pin M12 Standard connector with 2xLEDs (PNP), 10-30 V DC, 4 A; PUR black cable, 3-wires, 0.34 mm<sup>2</sup>

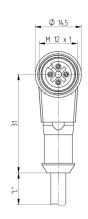
### **Product Description**

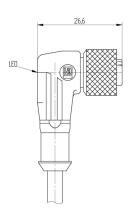
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### **Technical Drawing**

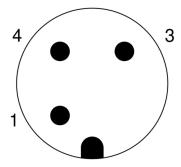




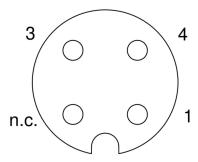


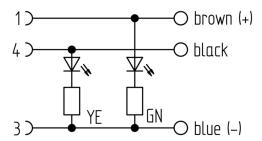


Male



Female



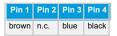


# **Technical Specifications**

### Face View Side 1

Pin 1	Pin 3	Pin 4
brown	blue	black

### Face View Side 2



# **Product Description**

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
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)*:	4 A

# **Technical Data Side 1**

Product Sub Family:	M12 Standard
Type of Contact / Gender:	Male
Connector Design:	Angled
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	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, IP68 (1 m / 24 h), IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU-GF
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

# **Cable Data**

Cable Number:	224
Conductor Size:	0.34 mm <sup>2</sup>
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black matt similarly RAL 9005
Cable Diameter D:	ø 4.30 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 ± 0.10 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Free of lacquer wetting disturbing substances; Coldness Flexibilty

# **Technical Data Side 2**

Product Sub Family, Side 2:         M12 Standard           Type of Contact / Gender, Side 2:         Female           Connector Design, Side 2:         Coupling Nut           Number of Pins, Side 2:         4           Coding, Side 2:         A           Contact Resistance, Side 2:         \$ 10 mOhm           Insulation Resistance, Side 2:         \$ 100 Ohm           Malling Cycles, Side 2:         \$ 100           Ambient Temperature (Operation), Side 2*;         \$ 40 °C · + 90 °C           Operating Temperature (UL), Side 2:         max. + 50 °C           Protection Degree / IP Rating, Side 2:         IEC 61076-2-101           Pollution Degree, Side 2:         IEC 61076-2-101           Pollution Degree, Side 2:         III acc. to Din En 80684-1 (VDE 0110-1)           Covervoltage Category, Side 2:         III acc. to Din En 80684-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cul/Au           Contact Bearer Material, Side 2:         TPU           Contact Bearer Material, Side 2:         Traslucent           Planmability Class (Contact Bearer), Side         Traslucent           Flammability Class (Moided Body), Side 2:         Traslucent           Flammability Class (Moided Body), Side 2:         Cu2n	Technical Bata Side 2	
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Attachment Type, Side 2: Coupling Nut  Number of Pins, Side 2: 4  Coding, Side 2: A  Contact Resistance, Side 2: \$10 mOhm  Insulation Resistance, Side 2: \$10 mOhm  Mating Cycles, Side 2: \$10°9 Ohm  Mating Cycles, Side 2: \$10°9 Ohm  Ambient Temperature (Operation), Side 2: \$10°  Ambient Temperature (Operation), Side 2: *40 °C - +90 °C  Operating Temperature (UL), Side 2: max + 50 °C  Operating Temperature (UL), Side 2: max + 50 °C  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Type of Contact / Gender, Side 2:	Female
Number of Pins, Side 2:  A Contact Resistance, Side 2:  ≤ 10 mOhm  Insulation Resistance, Side 2:  ≤ 100 mOhm  Mating Cycles, Side 2:  ≤ 100  Ambient Temperature (Operation), Side 2':  - 40 °C · + 90 °C  Operating Temperature (UL), Side 2:  max · + 50 °C  Protection Degree / IP Rating, Side 2**:  IEC 61076-2-101  Pollution Degree, Side 2:    IEC 61076-2-101  Pollution Degree, Side 2:   III acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2:   III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2:  Cul/Au  Contact Bearer Material, Side 2:  Cul/Au  Contact Bearer Material, Side 2:  Cul/Au  Contact Bearer Color, Side 2:  Orange  Flammability Class (Contact Bearer), Side 2:  Molded Body Material, Side 2:  TPU  Molded Body Material, Side 2:  Translucent  Flammability Class (Molded Body), Side 2:  UL 94 HB	Connector Design, Side 2:	Angled
Coding, Side 2:  A Contact Resistance, Side 2:  \$ 10 mOhm  Insulation Resistance, Side 2:  \$ 100  Ambient Temperature (Operation), Side 2*:  \$ 100  Ambient Temperature (Operation), Side 2*:  \$ 100  Ambient Temperature (UL), Side 2:  \$ 100  Ambient Temperature (UL), Side 2 100  Ambient Temperature (UL), Side 2:  \$ 100  Ambi	Attachment Type, Side 2:	Coupling Nut
Contact Resistance, Side 2: \$ 10 mOhm  Insulation Resistance, Side 2: \$ 100  Ambient Temperature (Operation), Side 2*: \$ 40 °C - + 90 °C  Operating Temperature (UL), Side 2: max. + 50 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent	Number of Pins, Side 2:	4
Insulation Resistance, Side 2: > 10^9 Ohm  Mating Cycles, Side 2: \$ 100  Ambient Temperature (Operation), Side 2*: -40 "C - + 90 "C  Operating Temperature (UL), Side 2: max. + 50 "C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 aoc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: TPU  Contact Bearer Material, Side 2: TPU  Contact Bearer Material, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Coding, Side 2:	A
Mating Cycles, Side 2: \$ 100  Ambient Temperature (Operation), Side 2*: 40 °C - + 90 °C  Operating Temperature (UL), Side 2: max + 50 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Material, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Contact Resistance, Side 2:	≤ 10 mOhm
Ambient Temperature (Operation), Side 2**: -40 °C - + 90 °C Operating Temperature (UL), Side 2: max. + 50 °C Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K Design Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: IIII acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSn Contact Plating, Side 2: CuI/Au Contact Bearer Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Flammability Class (Contact Bearer), Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: UL 94 HB	Insulation Resistance, Side 2:	> 10^9 Ohm
Operating Temperature (UL), Side 2: max. + 50 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Mating Cycles, Side 2:	≤ 100
Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K  Design Standard, Side 2: IEC 61076-2-101  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2:  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: TPU  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
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Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 HB  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Contact Base Material, Side 2:	CuSn
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Flammability Class (Contact Bearer), Side 2: UL 94 HB  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB	Contact Bearer Material, Side 2:	TPU
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Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: UL 94 HB		UL 94 HB
Flammability Class (Molded Body), Side 2: UL 94 HB	Molded Body Material, Side 2:	TPU
	Molded Body Color, Side 2:	Translucent
Attachment Material, Side 2: CuZn	Flammability Class (Molded Body), Side 2:	UL 94 HB
	Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2: Nickel-plated	Attachment Plating, Side 2:	Nickel-plated
O-Ring Material, Side 2: FKM, green	O-Ring Material, Side 2:	FKM, green

Function Indicator, Side 2:	2xLEDs (PNP)
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

### **Approvals**

UL-File:	E315587
UL:	UL 2238; cURus

### Safety & Environmental Compliance

RoHS Compliant:
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#### Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	Good chemical and oil resistance

#### **Notes**

Protection Degre	ee / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Note Derating:		Notice derating	

#### Variants

Item #	Item Description	Cable Length	Rated Current	Contact Bearer Color
2269	RSWT 3-RKWT/LED A 4-3-224/1 M	1 m	4 A	Orange
3111	RSWT 3-RKWT/LED A 4-3-224/1,5 M	1.5 m	4 A	Orange
44416	RSWT 3-RKWT/LED A 4-3-224/0,3 M	0.3 m	4 A	Orange
44598	RSWT 3-RKWT/LED A 4-3-224/0,6 M	0.6 m	4 A	Orange
56009	RSWT 3-RKWT/LED A 4-3-224/0,8 M	0.8 m	4 A	Orange
10647	RSWT 3-RKWT/LED A 4-3-224/3 M	3 m	4 A	Orange

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