



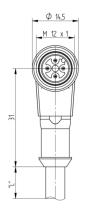
# Product: <u>RSWT 4-RKWT/LED F 4-251</u>

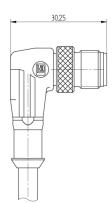
Sensor/Actuator Double-Ended Cordset: Male angled A-coded translucent 4-pin M12 Standard connector to female angled A-coded translucent 4-pin M12 Standard connector with 2xLEDs (PNP), 10-30 V DC, 4 A; PUR orange cable, 4-wires, 0.34 mm<sup>2</sup>

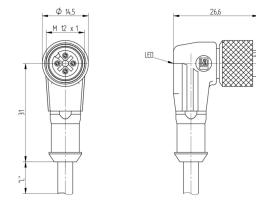
# **Product Description**

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 orange cable, 4-wires, 0.34 mm<sup>2</sup>

## **Technical Drawing**

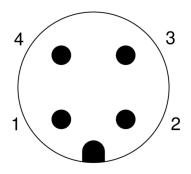


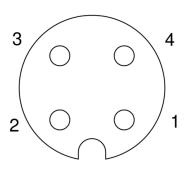


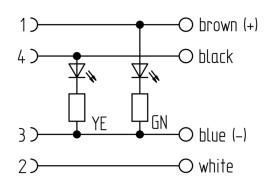


Male









# **Technical Specifications**

### Face View Side 1

Pin 1Pin 2Pin 3Pin 4brownwhiteblueblack

#### Face View Side 2

 Pin 1
 Pin 2
 Pin 3
 Pin 4

 brown
 white
 blue
 black

### **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
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:	251	
Conductor Size:	0.34 mm <sup>2</sup>	
Number of Wires:	4	
Minimal Bending Radius (Fixed Inst):	>5xD	
Minimal Bending Radius (Flexible Inst):	> 10 x D	
Cycles (Bending):	> 5 M	
Cycles (Torsion):	> 5 M @ ± 360 °/1 m	
Welding Resistance:	Welding spark resistant	
Conductor material:	Cu	
Cable Jacket Material:	PUR	
Cable Jacket Color:	orange	
Cable Diameter D:	ø 4.70 ± 0.15 mm	
Wire Insulation Material:	PP	
Insulated Wire Diameter:	ø 1.30 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 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2	
	Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Seatwater resistance; Coldness flexibility	

#### **Technical Data Side 2**

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Angled
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:	> 10^9 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 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:	UL 94 HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Translucent
Flammability Class (Molded Body), Side 2:	UL 94 HB

Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
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

yes
DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
DIN EN 60811-2-1

#### Notes

Protection Degree / 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
16014	RSWT 4-RKWT/LED F 4-251/0,6 M	0.6 m
16017	RSWT 4-RKWT/LED F 4-251/2 M	2 m
8727	RSWT 4-RKWT/LED F 4-251/0,3 M	0.3 m

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