



# Receptacles

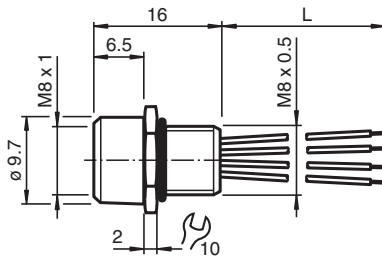
## V31-M8-500

- Front/screw mounting
- Halogen-free stranded wires
- Degree of protection IP67

Receptacles, M8, 4-pin



### Dimensions



### Technical Data

General specifications			
Connector 1			
Connection			socket
Construction type			M8
Style			straight
Locking			screw connection
Number of pins			4
Coding			A-coded
UL File Number			E191152
Electrical specifications			
Operating voltage	$U_B$		max. 48 V AC / 60 V DC
Operating current	$I_B$		max. 4 A
Volume resistance			< 3 m $\Omega$
Conformity			
Degree of protection			EN 60529
Plug connection			connector M8 x 1 : IEC 61076-2-104
Flammability			IEC 60332-1-2

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**Technical Data**

Halogen-free	IEC 60754-1	
<b>Ambient conditions</b>		
Ambient temperature		
Plug connector		-25 ... 85 °C (-13 ... 185 °F)
Cable, fixed		-40 ... 105 °C (-40 ... 221 °F)
Cable, flexing		-10 ... 105 °C (14 ... 221 °F)
Pollution degree	3	
<b>Mechanical specifications</b>		
Plug connector		
Tightening torque		0.4 Nm
Mating cycles	min. 100	
Degree of protection	IP67	
Material		
Contacts	CuSn	
Contact surface	Au	
Connector	brass, nickel-plated	
Seal	FKM	
Core insulation	PVC	
Cable		
Number of cores	4	
Core cross section	0.25 mm <sup>2</sup>	
Cores color	Core 1: brown Core 2: white Core 3: blue Core 4: black	
Core construction	7 x 0.2 mm Ø	
Length	L	500 mm
Installation	Front mounting M8	
<b>Material</b>		
Halogen-free	yes	
Plug connector		
Screw connection	brass, nickel-plated	
Seal	FKM	
Contact surface	Au	
Flammability	HB	
Cable		
Core insulation	PVC	

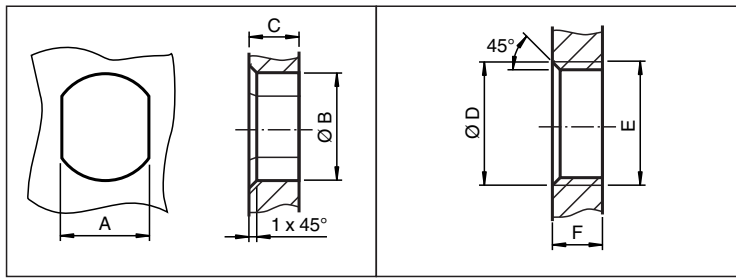
**Connection Assignment**



- 1) ————— BN
- 2) ————— WH
- 3) ————— BU
- 4) ————— BK

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**Mounting**



	A	B	C	D	E	F
M8	7.1 <sup>+0.1</sup>	Ø 8.2 <sup>+0.1</sup>	2 - 4 mm	-	M8x0.5	2 - 4 mm
M12	11 <sup>+0.1</sup>	Ø 12.2 <sup>+0.1</sup>	< 4 mm	-	M12x1	< 4.5 mm
M16	13.5 <sup>+0.1</sup>	Ø 16.1	< 4.5 mm	Ø 17 <sup>+0.2</sup>	M16x1.5	> 2.5 mm
M20	13.5 <sup>+0.1</sup>	Ø 20.1	-	Ø 20 <sup>+0.2</sup>	M20x1.5	< 6 mm
PG9	13.5 <sup>+0.1</sup>	Ø 15.3 <sup>+0.1</sup>	< 4.5 mm	Ø 16	PG9	> 2.5 mm
PG13.5	18.8 <sup>+0.1</sup>	Ø 20.5 <sup>+0.1</sup>	-	Ø 22 <sup>±0.1</sup>	PG13.5	-

**Accessories**

	<p><b>LOCKNUT M8 NICKEL BRASS</b></p>	<p>Nut, nickel-plated brass</p>
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