

M23 Power

Plug connector RLS11**

DOK-CONNEC-RLS11XX***-DA01-EN-P

R911431212
Edition 01

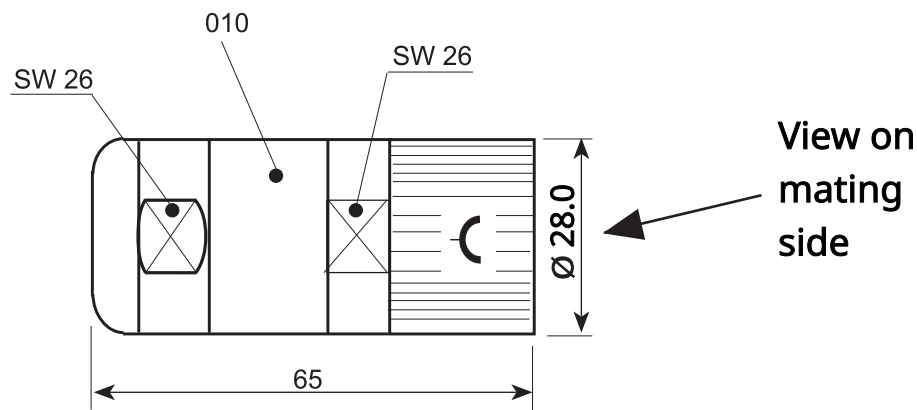
1 M23 Power coupling

Technical data



Designation	Symbol	Unit	RLS1101/C02	RLS1108/C03
Material number (accessory)			R911308580	R911318318
Type			Power coupling	
Connector size			M23	
Mode of locking			Screw top	
Cable type			REL0105, REL0106	REL0107
Clamping range ØA	D	mm	11 ... 14	7,5 ... 18
Coding			Bosch specific pole pattern	
Number of poles plug-in connectors			3+PE+5	
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.25 ... 1.0)	4x (1.0 ... 2.5) + 5x (0.25 ... 1.0)
Maximum rated current plug-in connector power ¹⁾	I _{NP}	A	18 (CSA) 27 (UL)	
Maximum rated current plug-in connector signal ²⁾	I _{NS}	A	5 (CSA) 10 (UL)	
Mass	m	kg	0,135	0,138
Contact design			Socket	
Connection design			Crimp	
Rated voltage power contact	U _{NP}		600 (UL/CSA)	
Rated voltage signal contact	U _{NS}	V	600 (UL/CSA)	
Overvoltage category			III	
Resistance	R	mOhm	< 3	
Temperature range	T _a	°C	-40 ... 125	
Installation altitude	h	m	3000	
Pollution degree			3	
Housing material			GD-Zn nickel-plated	
Contact material			CuZn, gold-plated 0.2 µm	
Mating cycles			100	
Contact carrier material			PA66	
Sealings			FKM	
Protection mode (locked)			IP67	
CE conformity			CE	
UL/CSA Approvals			cURus	
E-file number			E153698	
RoHS (EU)			compliant according to 2011/65/EU	

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.



**View on
mating side**

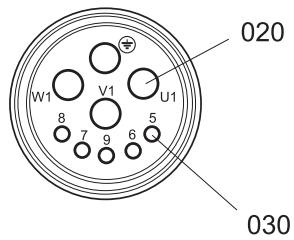
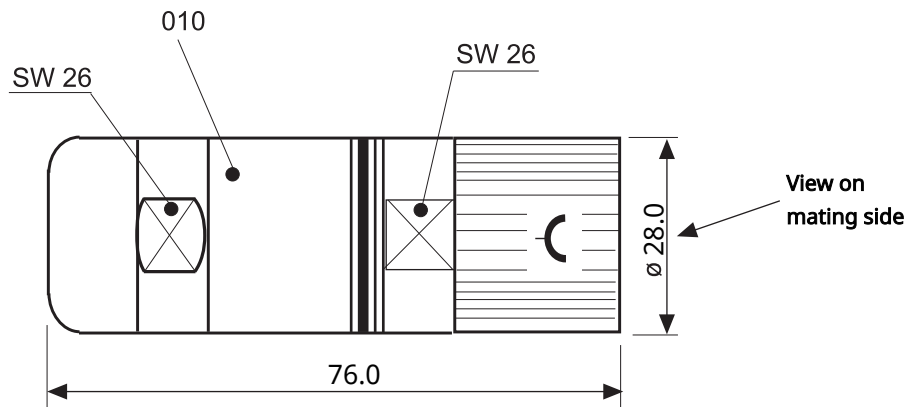


Fig. 1: RLS1101/C02

010 Plug-in connector 9-pin

020 Crimp contacts power 0.75/1.5 mm²

030 Crimp contacts control 0.25/1.0 mm²



**View on
mating side**

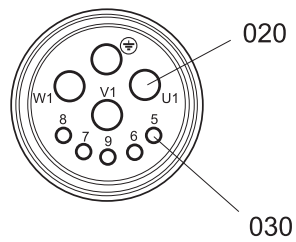


Fig. 2: RLS1108/C03

010 Plug-in connector 9-pin

020 Crimp contacts power 1.0/2.5 mm²

030 Crimp contacts control 0.25/1.0 mm²

2 M23 Power connector

Technical data



Designation	Symbol	Unit	RLS1102/C02	RLS1109/C03
Material number (accessory)			R911310671	R911318319
Type			Power connector	
Connector size			M23	
Mode of locking			Screw top	
Cable type			REL0105, REL0106	REL0107
Clamping range ØA	D	mm	11 ... 14	7,5 ... 18
Coding			Bosch specific pole pattern	
Number of poles plug-in connectors			3+PE+5	
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.25 ... 1.0)	4x (1.0 ... 2.5) + 5x (0.25 ... 1.0)
Maximum rated current plug-in connector power ¹⁾	I _{NP}	A	18 (CSA) 27 (UL)	
Maximum rated current plug-in connector signal ²⁾	I _{NS}	A	5 (CSA) 10 (UL)	
Mass	m	kg	0.109	0.111
Contact design			Pin	
Connection design			Crimp	
Rated voltage power contact	U _{NP}	V	600 (UL/CSA)	
Rated voltage signal contact	U _{NS}	V	600 (UL/CSA)	
Overvoltage category			III	
Resistance	R	mOhm	< 3	
Temperature range	T _a	°C	-40 ... 125	
Installation altitude	h	m	3000	
Pollution degree			3	
Housing material			GD-Zn nickel-plated	
Contact material			CuZn, gold-plated 0.2 µm	
Mating cycles			100	
Contact carrier material			PA66	
Sealings			FKM	
Protection mode (locked)			IP67	
CE conformity			CE	
UL/CSA Approvals			cURus	
E-file number			E153698	
RoHS (EU)			compliant according to 2011/65/EU	

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

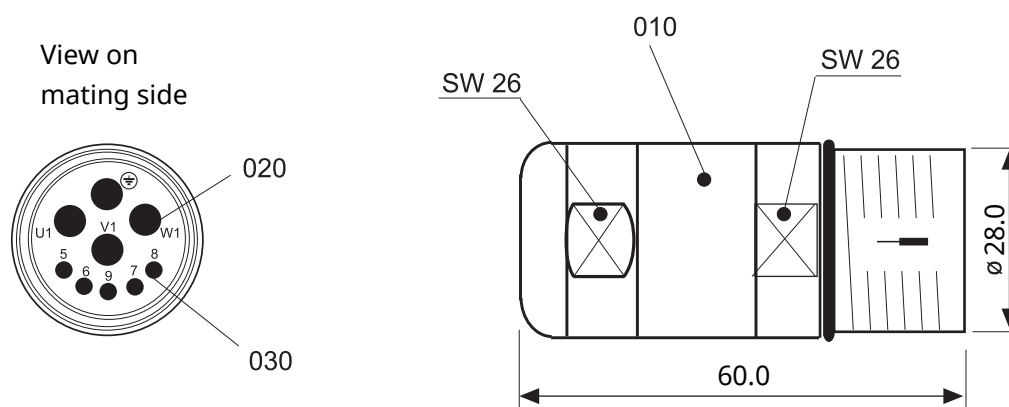


Fig. 3: RLS1102/C02

010 Plug-in connector 9-pin

020 Crimp contacts power 0.75/1.5 mm²

030 Crimp contacts control 0.25/1.0 mm²

3 M23 Power connector

Technical data



Designation	Symbol	Unit	RLS1103/C02
Material number (accessory)			R911321839
Type			Power connector
Connector size			M23
Mode of locking			Screw top
Cable type			-
Clamping range ØA	D	mm	-
Coding			Bosch specific pole pattern
Number of poles plug-in connectors			3+PE+5
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.14 ... 0.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	18 (CSA) 27 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	5 (CSA) 10 (UL)
Mass	m	kg	0.045
Contact design			Pin
Connection design			Crimp
Rated voltage power contact	U _{N P}	V	600 (UL/CSA)
Rated voltage signal contact	U _{N S}	V	600 (UL/CSA)
Overvoltage category			III
Resistance	R	mOhm	< 3
Temperature range	T _a	°C	-40 ... 125
Installation altitude	h	m	3000
Pollution degree			3
Housing material			GD-Zn nickel-plated
Contact material			CuZn, gold-plated 0.2 µm
Mating cycles			100
Contact carrier material			PA66
Sealings			FKM
Protection mode (locked)			IP67
CE conformity			CE
UL/CSA Approvals			cURus
E-file number			E153698
RoHS (EU)			compliant according to 2011/65/EU

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

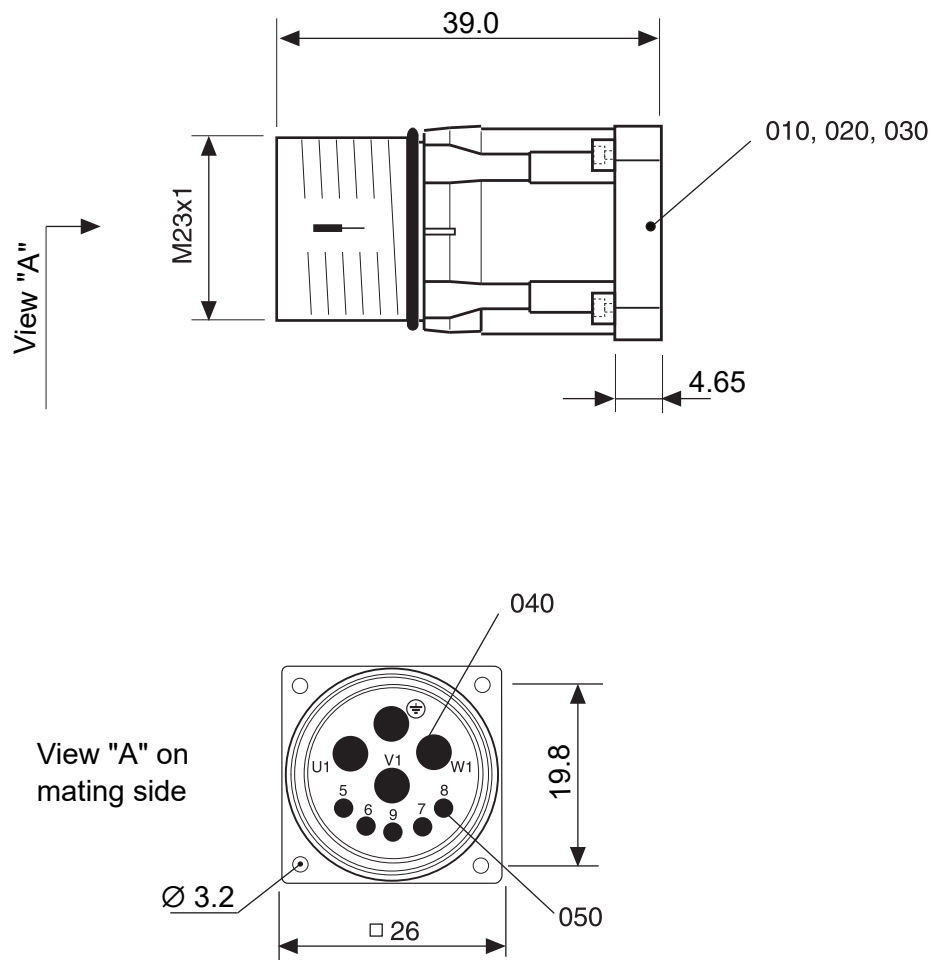


Fig. 5: RLS1103/C02

010 Plug-in connector 9-pin

040 Crimp contacts power 0.75/1.5 mm²

050 Crimp contacts control 0.14/0.5 mm²

4 M23 Power connector with flange

Technical data



Designation	Symbol	Unit	RLS1104/C02
Material number (accessory)			R911339611
Type			Power connector with flange
Connector size			M23
Mode of locking			Screw top
Cable type			REL0105, REL0106
Clamping range ØA	D	mm	11 ... 14
Coding			Bosch specific pole pattern
Number of poles plug-in connectors			3+PE+5
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.25 ... 1.0)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	18 (CSA) 27 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	5 (CSA) 10 (UL)
Mass	m	kg	0.111
Contact design			Pin
Connection design			Crimp
Rated voltage power contact	U _{N P}	V	600 (UL/CSA)
Rated voltage signal contact	U _{N S}	V	600 (UL/CSA)
Overvoltage category			III
Resistance	R	mOhm	< 3
Temperature range	T _a	°C	-40 ... 125
Installation altitude	h	m	3000
Pollution degree			3
Housing material			GD-Zn nickel-plated
Contact material			CuZn, gold-plated 0.2 µm
Mating cycles			50
Contact carrier material			PA66
Sealings			FKM
Protection mode (locked)			IP67
CE conformity			CE
UL/CSA Approvals			cURus
E-file number			E153698
RoHS (EU)			compliant according to 2011/65/EU

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

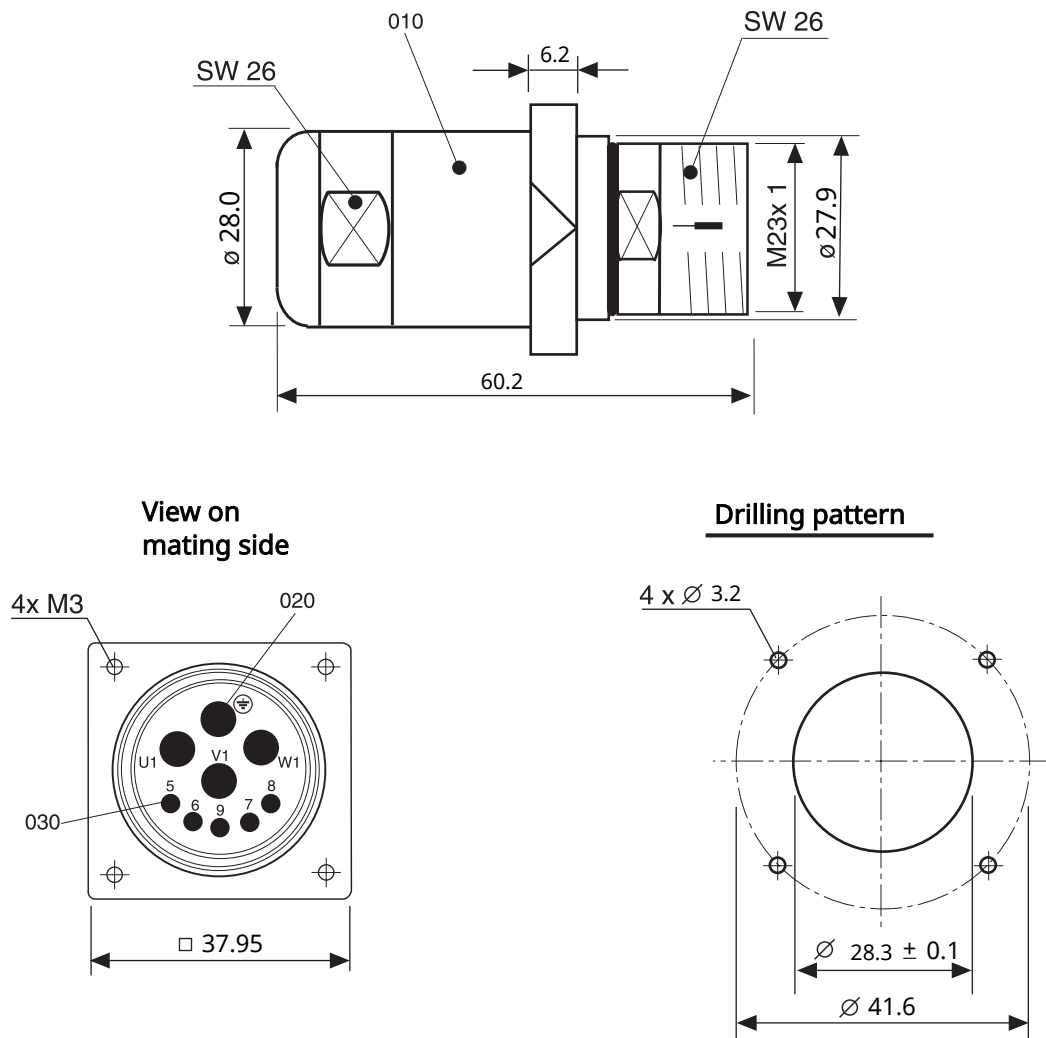


Fig. 6: RLS1104/C02

010 Plug-in connector 9-pin

020 Crimp contacts power 0.75/1.5 mm²

030 Crimp contacts control 0.25/1.0 mm²

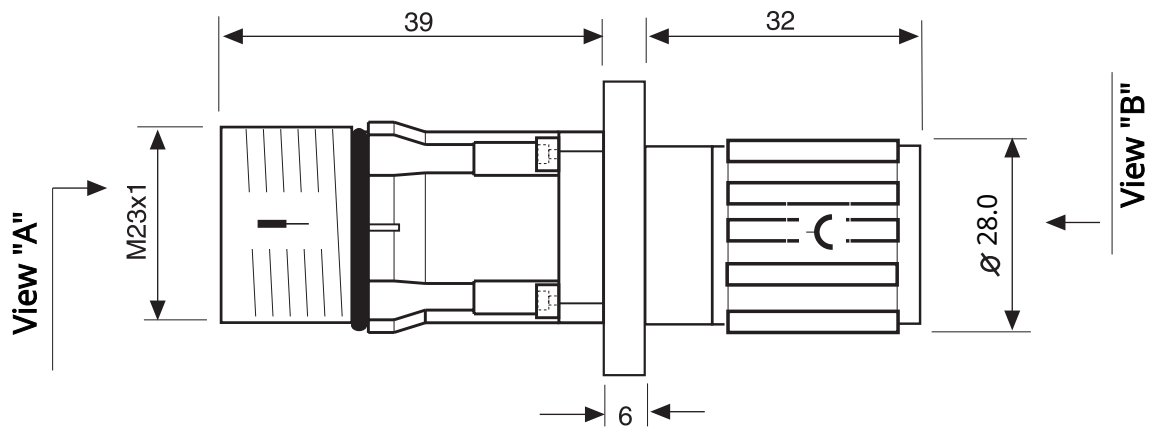
5 M23 Panel feed-through

Technical data

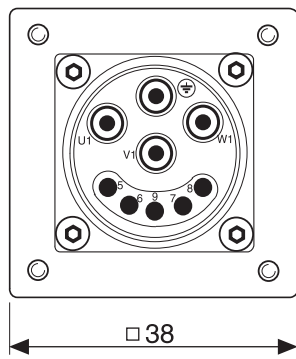


Designation	Symbol	Unit	RLS1105/A02
Material number (accessory)			R911310875
Type			Panel feed-through
Connector size			M23
Mode of locking			Screw top
Cable type			-
Clamping range ØA	D	mm	-
Coding			Bosch specific pole pattern
Number of poles plug-in connectors			3+PE+5
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.25 ... 1.0)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	18 (CSA) 27 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	5 (CSA) 10 (UL)
Mass	m	kg	0.18
Contact design			Pin / Socket
Connection design			Crimp
Rated voltage power contact	U _{N P}	V	600 (UL/CSA)
Rated voltage signal contact	U _{N S}	V	600 (UL/CSA)
Overvoltage category			III
Resistance	R	mOhm	< 3
Temperature range	T _a	°C	-40 ... 125
Installation altitude	h	m	3000
Pollution degree			3
Housing material			GD-Zn nickel-plated
Contact material			CuZn, gold-plated 0.2 µm
Mating cycles			100
Contact carrier material			PA66
Sealings			FKM
Protection mode (locked)			IP67
CE conformity			CE
UL/CSA Approvals			cURus
E-file number			E153698
RoHS (EU)			compliant according to 2011/65/EU

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.



View "A"
(pin side)



View "B"
(socket side)

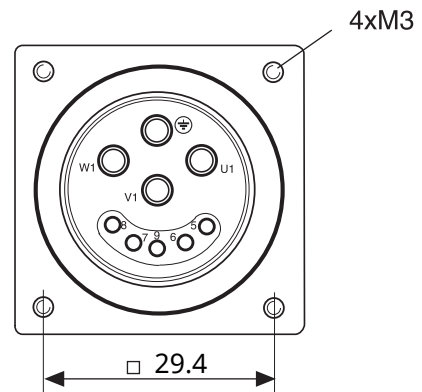


Fig. 7: RLS1105/A02

6 M23 Flange socket

Technical data



Designation	Symbol	Unit	RLS1110/C02
Material number (accessory)			R911332162
Type			Flange socket
Connector size			M23
Mode of locking			Screw top
Cable type			-
Clamping range ØA	D	mm	-
Coding			Bosch specific pole pattern
Number of poles plug-in connectors			3+PE+5
Contacts (amount and size)			4x (0.75 ... 1.5) + 5x (0.25 ... 1.0)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	18 (CSA) 27 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	5 (CSA) 10 (UL)
Mass	m	kg	0.079
Contact design			Socket
Connection design			Crimp
Rated voltage power contact	U _{N P}	V	600 (UL/CSA)
Rated voltage signal contact	U _{N S}	V	600 (UL/CSA)
Overvoltage category			III
Resistance	R	mOhm	< 3
Temperature range	T _a	°C	-40 ... 125
Installation altitude	h	m	3000
Pollution degree			3
Housing material			GD-Zn nickel-plated
Contact material			CuZn, gold-plated 0.2 µm
Mating cycles			100
Contact carrier material			PA66
Sealings			FKM
Protection mode (locked)			IP67
CE conformity			CE
UL/CSA Approvals			cURus
E-file number			E153698
RoHS (EU)			compliant according to 2011/65/EU

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

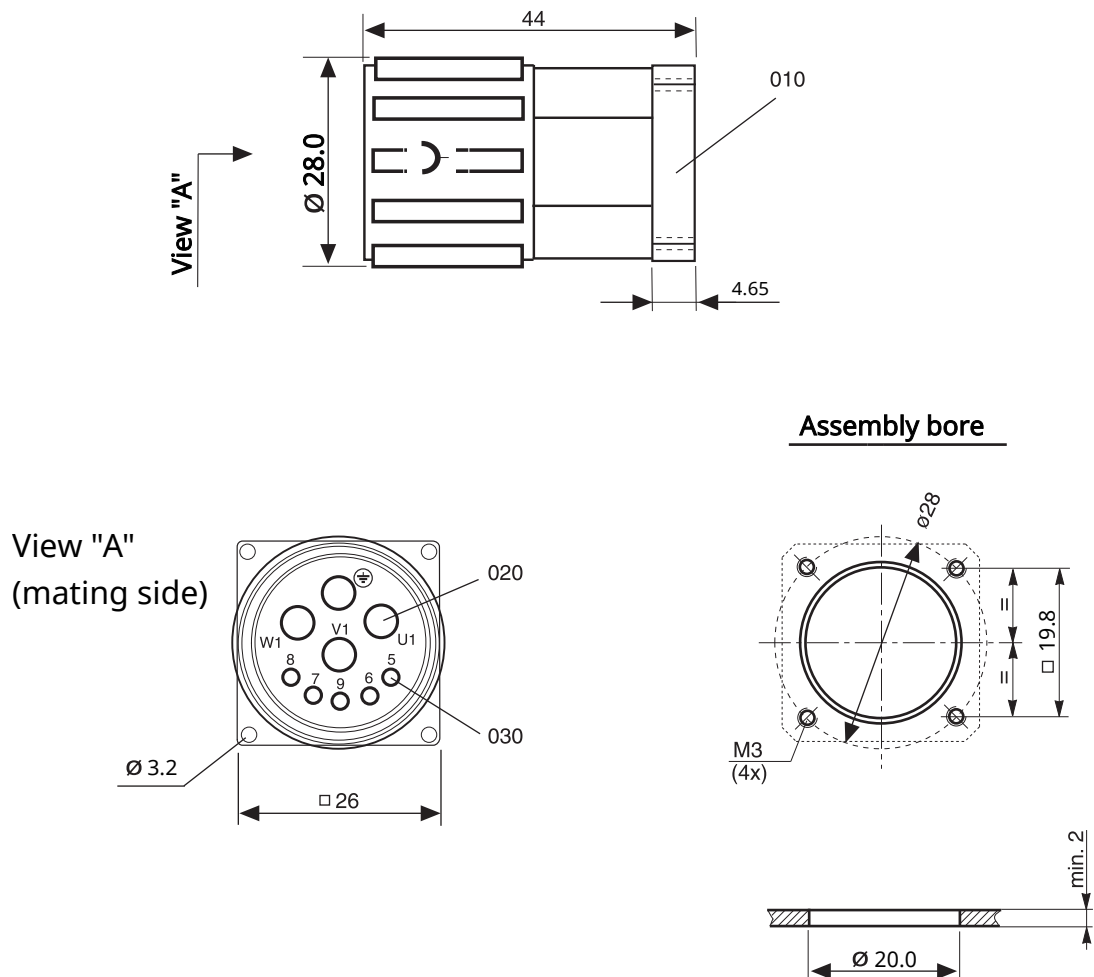


Fig. 8: RLS1110/C02

010 Plug-in connector 9-pin

020 Crimp contacts power 0.75/1.5 mm²

030 Crimp contacts control 0.14...0.5 mm²

