

M40 Power

Plug-in connector RLS12**

DOK-CONNEC-RLS12XX***-DA01-EN-P

R911431214
Edition 01

1 M40 Power connector

Technical data



Designation	Symbol	Unit	RLS1201/C02	RLS1201/C03	RLS1201/C04	RLS1201/C06	RLS1201/C10
Material number (accessory)			R911371956	R911308581	R911308582	R911308668	R911308583
Type			Power connector				
Connector size			M40				
Mode of locking			Screw top				
Cable type			REL0105 REL0106	REL0107	REL0108	REL0109	REL0110
Clamping range ØA	D	mm	9 ... 12.7		12.7 17.0	17 21	21 25.5
Coding			Bosch specific pole pattern				
Number of poles plug-in connectors			3+PE+5				
Contacts (amount and size)			4x (1.0 ... 2.5) + 5x (0.75 ... 1.5)	4x (1.0 ... 2.5) + 5x (0.75 ... 1.5)	4x (2.5 ... 4.0) + 5x (0.75 ... 1.5)	4x (6.0 ... 10.0) + 5x (0.75 ... 1.5)	4x (6.0 ... 10.0) + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{NP}	A	40 (CSA) 65 (UL)				
Maximum rated current plug-in connector signal ²⁾	I _{NS}	A	20 (CSA) 30 (UL)				
Mass	m	kg	0.493	0.491	0.492	0.493	0.486
Contact design			Socket				
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				
Resistor	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				
Identification "B"							

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.

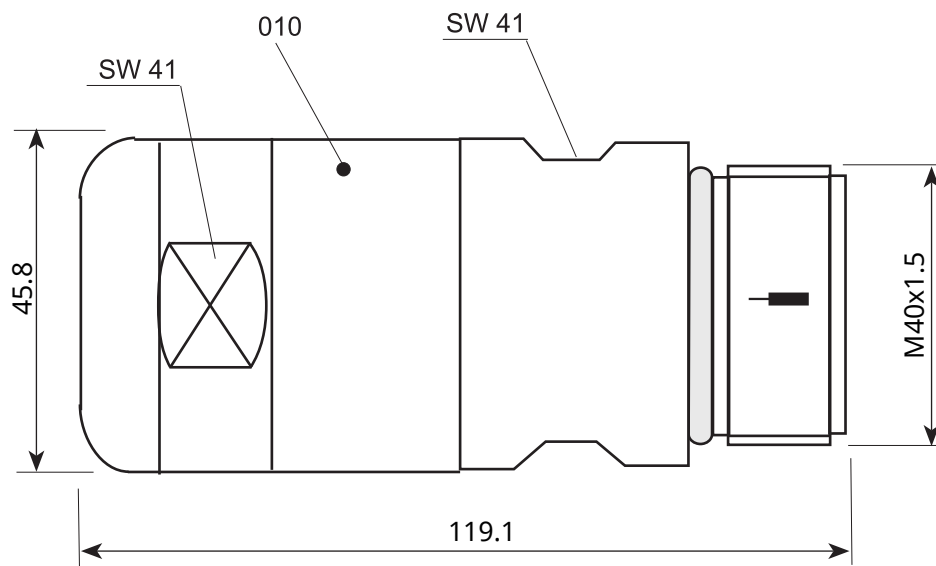
2 M40 Power connector

Technical data



Designation	Symbol	Unit	RLS1202/C03	RLS1202/C04	RLS1202/C06
Material number (accessory)			R911311086	R911311087	R911311088
Type			Power connector		
Connector size			M40		
Mode of locking			Screw top		
Cable type			REL0107	REL0108	REL0109
Clamping range ØA	D	mm	9 ... 12.7	12.7 ... 17.0	17 ... 21
Coding			Bosch specific pole pattern		
Number of poles plug-in connectors			3+PE+5		
Contacts (amount and size)			4x (1.0 ... 2.5) + 5x (0.75 ... 1.5)	4x (2.5 ... 4.0) + 5x (0.75 ... 1.5)	4x (6.0 ... 10.0) + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	40 (CSA) 65 (UL)		
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	20 (CSA) 30 (UL)		
Mass	m	kg	0.623		0.621
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		
Resistor	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		
Identification "B"					

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**

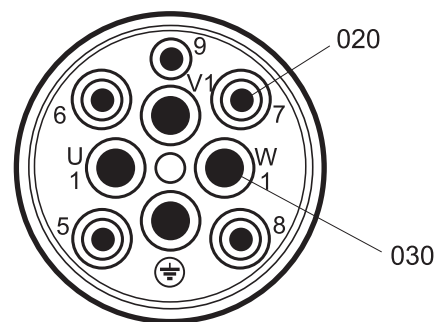


Fig. 2: RLS1202/C03, RLS1202/C04, RLS1202/C06, RLS1202/C10

010 Plug-in connector 9-pin

020 Crimp contacts control

030 Crimp contacts power

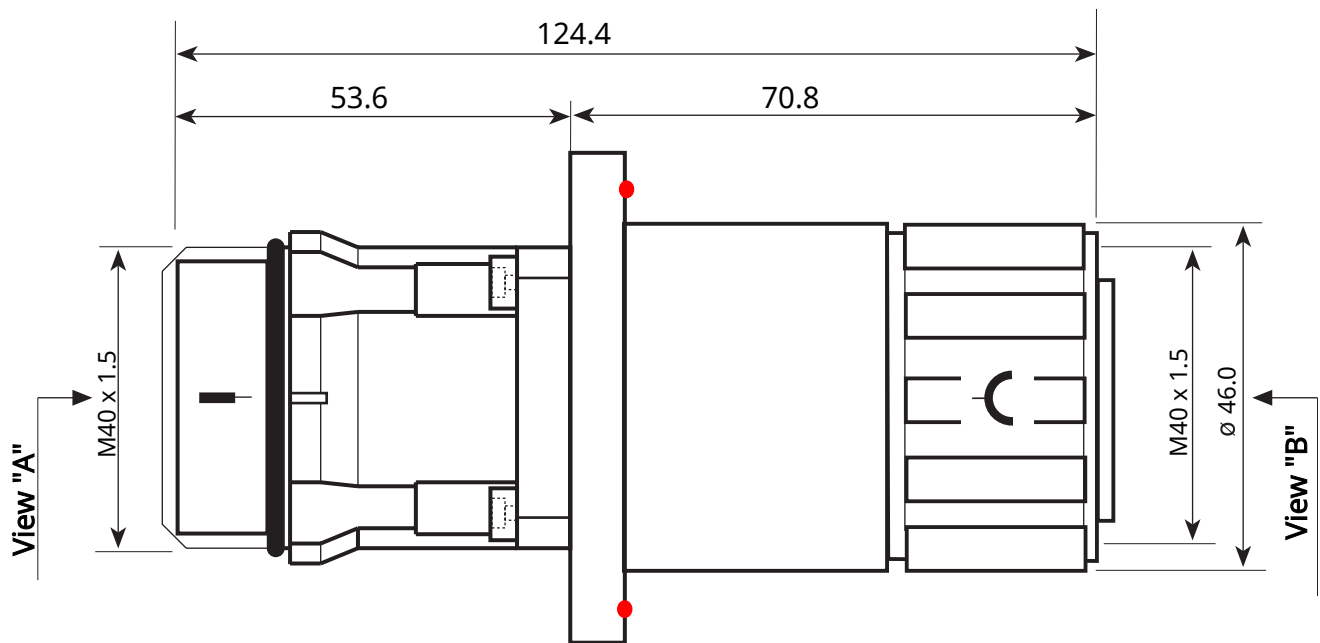
3 M40 Panel feed-through

Technical data



Designation	Symbol	Unit	RLS1205/A10
Material number (accessory)			R911310876
Type			Panel feed-through
Connector size			M40
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 (2.5 ... 10.0) + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	40 (CSA) 65 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	20 (CSA) 30 (UL)
Mass	m	kg	0.755
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
Resistor	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
Identification "B"			

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)

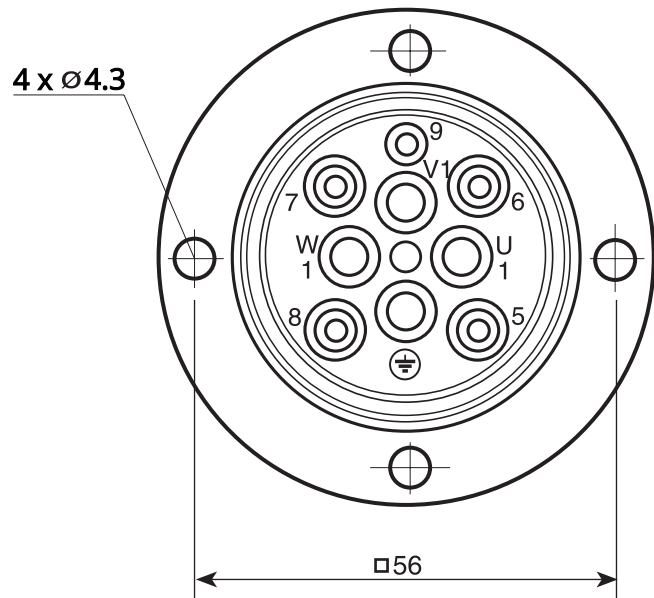
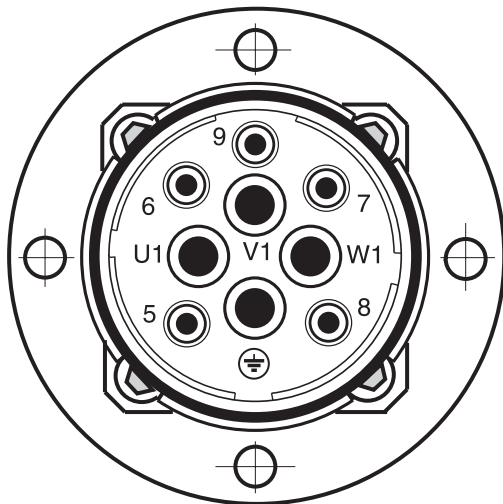


Fig. 3: RLS1205

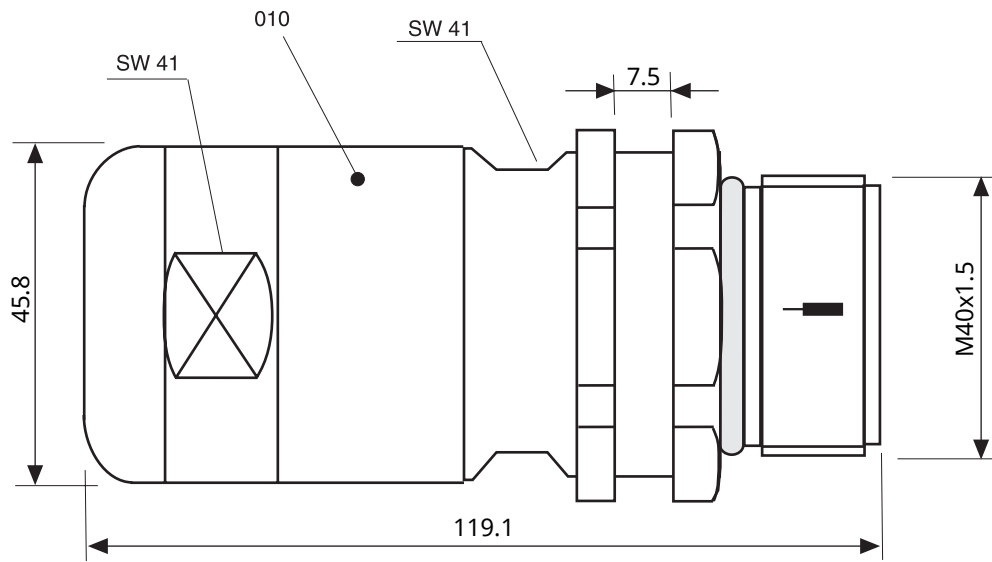
4 M40 Power connector

Technical data



Designation	Symbol	Unit	RLS1206/C06
Material number (accessory)			R911324280
Type			Power connector
Connector size			M40
Mode of locking			Screw top
Cable type			REL0109
Clamping range ØA	D	mm	17 ... 21
Coding			Bosch specific pole pattern
Number of poles plug-in connectors			3+PE+5
Contacts (amount and size)			4x (6.0 ... 10.0) + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	40 (CSA) 65 (UL)
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	20 (CSA) 30 (UL)
Mass	m	kg	0.664
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
Resistor	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
Identification "B"			

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

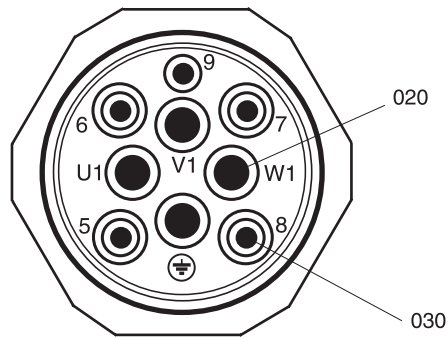


Fig. 4: RLS1206

- 010 Plug-in connector 9-pin
- 020 Crimp contacts power
- 030 Crimp contacts control

