



gesis® IP+
RST 20i3 HD Z2 (30A)
Heavy-Duty Connectors
for Class 1, Zone 2 (Division 2)
Hazardous Locations

Catalog 2012

Catch the Next Wave in Modular Connections



RST HD Z2

RST 20i3 Heavy Duty (30A) Class I, Zone 2

Coding system via use of coloured inserts¹
 3 pole connectors with reinforcing collars²
 Ratings: 30A , 600V, 10 AWG
 Inserts: Screw Clamp (solid or stranded conductors)
 Enclosure rating: IP 66/68, Type 6P rated
 Mounting type:
 Cable Mount (10-14mm)
 Panel Mount (M20 & M25)
 Double Locking System



TYPE	RST 20i3 HD Z2 (30A)	RST 20i3 HD Z2 (30A)	RST 20i3 HD Z2 (30A)	RST 20i3 HD Z2 (30A)
Type	Female Cable Mount	Male Cable Mount	Female Panel Mount	Male Panel Mount
Wire Size	10 AWG ³	10 AWG ³	10 AWG ³	10 AWG ³
Max Voltage	600 VAC	600 VAC	600 VAC	600 VAC
Amperage	30 A	30 A	30 A	30 A
Dimensions WxHxD	40x42x83 mm	38x38x78 mm	42x42x74 mm	38x38x70 mm
Wire Strip Length	8 mm	8 mm	8 mm	8 mm
Approvals ⁴				

3 Pole Gray	34.299.7014.0 10-14 mm Cable Diameter	34.299.7114.0 10-14 mm Cable Diameter	34.299.7202.0 M20 Thread Size	34.299.7212.0 M20 Thread Size
3 Pole Black	34.299.7014.1 10-14 mm Cable Diameter	34.299.7114.1 10-14 mm Cable Diameter	34.299.7202.1 M20 Thread Size	34.299.7212.1 M20 Thread Size
3 Pole Concrete Gray	34.299.7414.3 10-14 mm Cable Diameter	34.299.7514.3 10-14 mm Cable Diameter	34.299.7602.3 M20 Thread Size	34.299.7612.3 M20 Thread Size
3 Pole Brown	34.299.7014.4 10-14 mm Cable Diameter	34.299.7114.4 10-14 mm Cable Diameter	34.299.7202.4 M20 Thread Size	34.299.7212.4 M20 Thread Size
3 Pole Turquoise				
3 Pole Green	34.299.7014.7 10-14 mm Cable Diameter	34.299.7114.7 10-14 mm Cable Diameter	34.299.7202.7 M20 Thread Size	34.299.7212.7 M20 Thread Size
3 Pole Light Blue	34.299.7014.9 10-14 mm Cable Diameter	34.299.7114.9 10-14 mm Cable Diameter	34.299.7202.9 M20 Thread Size	34.299.7212.9 M20 Thread Size

3 Pole Gray			34.299.7200.0 M25 Thread Size	34.299.7210.0 M25 Thread Size
3 Pole Black			34.299.7200.1 M25 Thread Size	34.299.7210.1 M25 Thread Size
3 Pole Concrete Gray			34.299.7600.3 M25 Thread Size	34.299.7610.3 M25 Thread Size
3 Pole Brown			34.299.7200.4 M25 Thread Size	34.299.7210.4 M25 Thread Size
3 Pole Turquoise				
3 Pole Green			34.299.7200.7 M25 Thread Size	34.299.7210.7 M25 Thread Size
3 Pole Light Blue			34.299.7200.9 M25 Thread Size	34.299.7210.9 M25 Thread Size

Notes	
	¹ Black and Gray inserts will intermate, all other colour combinations are mechanically coded
	² For use in Class I, Zone 2 areas, the installation MUST include the reinforcement collars.
	³ Use with 90°C rated flexible cable ONLY.
	Wieland Electric is not liable for damage inflicted upon about items due to incorrect factory or field installation practices. Refer for Installation & Assembly instructions (Document Number 34.205.0160.1) for proper installation procedure.
	⁴ Certified to CSA Standards for use in Class I, Zone 2 Areas. cQPS File #LR1063 (Ex nA IIB + H2 T5 X)

RST HD Z2

RST 20i3 Heavy Duty (30A) Class I, Zone 2

Coding system via use of coloured inserts¹
 3 pole connectors with reinforcing collars²
 Ratings: 30A , 600V, 10 AWG
 Inserts: Screw Clamp (solid or stranded conductors)
 Enclosure rating: IP 66/68, Type 6P rated
 Mounting type: 1/2" NPT-M or 3/4" NPT-M
 Double Locking System



TYPE	RST 20i3 HD Z2 (30A)	RST 20i3 HD Z2 (30A)
Type	Device Mount, Female, NPT	Device Mount, Male, NPT
Wire Size	10 AWG ³	10 AWG ³
Max Voltage	600 VAC	600 VAC
Amperage	30 A	30 A
Dimensions WxHxD	42x42x74 mm	38x38x70 mm
Wire Strip Length	8 mm	8 mm
Approvals ⁴		

Color	Part Number	Part Number		
3 Pole Gray	34.299.7204.0 1/2" NPT Thread Size	34.299.7214.0 1/2" NPT Thread Size		
3 Pole Black	34.299.7204.1 1/2" NPT Thread Size	34.299.7214.1 1/2" NPT Thread Size		
3 Pole Concrete Gray	34.299.7604.3 1/2" NPT Thread Size	34.299.7614.3 1/2" NPT Thread Size		
3 Pole Brown	34.299.7204.4 1/2" NPT Thread Size	34.299.7214.4 1/2" NPT Thread Size		
3 Pole Turquoise				
3 Pole Green	34.299.7204.7 1/2" NPT Thread Size	34.299.7214.7 1/2" NPT Thread Size		
3 Pole Light Blue	34.299.7204.9 1/2" NPT Thread Size	34.299.7214.9 1/2" NPT Thread Size		

Color	Part Number	Part Number		
3 Pole Gray	34.299.7205.0 3/4" NPT Thread Size	34.299.7215.0 3/4" NPT Thread Size		
3 Pole Black	34.299.7205.1 3/4" NPT Thread Size	34.299.7215.1 3/4" NPT Thread Size		
3 Pole Concrete Gray	34.299.7605.3 3/4" NPT Thread Size	34.299.7615.3 3/4" NPT Thread Size		
3 Pole Brown	34.299.7205.4 3/4" NPT Thread Size	34.299.7215.4 3/4" NPT Thread Size		
3 Pole Turquoise				
3 Pole Green	34.299.7205.7 3/4" NPT Thread Size	34.299.7215.7 3/4" NPT Thread Size		
3 Pole Light Blue	34.299.7205.9 3/4" NPT Thread Size	34.299.7215.9 3/4" NPT Thread Size		

Notes	
	¹ Black and Gray inserts will intermate, all other colour combinations are mechanically coded
	² For use in Class I, Zone 2 areas, the installation MUST include the reinforcement collars.
	³ Use with 90°C rated flexible cable ONLY.
	Wieland Electric is not liable for damage inflicted upon about items due to incorrect factory or field installation practices. Refer for Installation & Assembly instructions (Document Number 34.205.0160.1) for proper installation procedure.
	⁴ Certified to CSA Standards for use in Class I, Zone 2 Areas. cQPS File #LR1063 (Ex nA IIB + H2 T5 X)

RST 20i3 Heavy Duty (30A) Class I, Zone 2

RST HD Z2

Accessories

Disconnect Caps
No Tether

25.564.4553.1
Female, 3 Pole

05.564.4453.1
Male, 3 Pole

Disconnect Caps
Stainless Steel Tether

99.543.0000.7
Female, 3 Pole

99.545.0000.7
Male, 3 Pole

White locking clip

05.583.2953.2
Replacement in Male Insert only

Gasket
Panel mount connectors

05.565.0283.0
M20 & 1/2" NPT Thread Size

05.565.0383.0
M25 & 3/4" NPT Thread Size

Pozidriv Screwdriver

34.225.0062.8
PZ1 25 x 54 x 4.5 mm

34.225.0060.8
PZ1 80 x 98 x 4.5 mm

34.225.0061.8
PZ1 200 x 98 x 4.5 mm

Flat Screwdriver
"Slot" Screwdriver

06.502.4000.0
0.6 x 3.5 mm

06.502.4100.0
0.8 x 4.0 x 100 mm

06.502.4300.0
0.4 x 2.5 mm

Electrical:

Rated Voltage: 600V
Rated Current: 30A
Wire Gauge: 10 AWG

Mechanical:

Number of Poles: 3 pole (L, N, GRD)
Colours: Gray, Black, Concrete Gray, Brown, Green, Light Blue
Ambient Temperature: -40°C to +100°C
Mating Cycles: 100 cycles without load; 50 cycles at rated load
Degree of Protection: IP65, IP66, IP 67 & IP68;
Type 6P (Canada); IK07
Coding: Mechanical coding by colour code.
Exception: Gray and Black will inter-mate.

Notes:

Protection against accidental shock is generally ensured even when disconnected. Ground pin is leading. Connection to the live cable must be with a female connector according to the local codes and accepted practices. Contacts in the cable connectors are protected against strain on the cable. For use in Class I, Zone 2 areas, the use of the mating collars is required to satisfy the cQPS (LR1063) approval. Connector sets installed in Class I, Zone 2 areas must not be disconnected under load.

Cable Specifications:

Flexible (rubber jacketed) cable acceptable according to the Canadian Electrical Code requirements for cable type. Must have a minimum 90C temperature rating, and be approved to CSA standards (or acceptable equivalent) for installation in the Zone 2 (Division 2) area.

Cable harnesses available upon request.

Material:

Contact Parts: Brass, Special Plated (resistance corrosion due to H2S gas)
Housing Parts: Thermoplastic material PA66, Halogen free, UL94-V2
Collars: Thermoplastic material PA66, Halogen free, UL94-V2, UV stabilized
Gaskets & Seals: NBR
Adapters: Thermoplastic Polycarbonate, UV stabilized

Approvals:

Certifications (Ordinary Location):
CSA
Standards (Ordinary Locations):
CSA C22.2 No 0 – M91; CSA C22.2 No 0.4;
CSA C22.2 No 94 M91; CSA C22.2 No 182.1-02
Certifications (Hazardous Location):
cQPS file #LR1063 Ex nA IIB+H2 T5 X.
Suitable for Class I, Zone 2 (Division 2) areas.
Standards (Hazardous Locations):
CSA E60079-0-02; CSA E60079-15-02

Installation:

Cable Insulation Strip Length	22 mm (0.87")
Conductor Length	Ground: 22 mm (0.87") L,N: 17 mm (0.67")
Conductor Strip Length	Ground: 8 mm (0.32") L,N: 8 mm (0.32")
Termination Screw Torque	Ground: 0.8 - 1.0 Nm (0.59 lb-ft) L,N: 0.8 - 1.0 Nm (0.59 lb-ft)

Refer to Wieland Installation & Assembly brochure:
Part number 34.205.0162.0



wieland

Headquarters Canada
Wieland Electric Inc
2889 Brighton Road
Oakville, Ontario
Canada
L6H 6C9

1 800-Wieland (943-5263)
Tel. (905) 829-8414
Fax. (905) 829-8413
www.wieland-electric.ca
technical.support@wieland-electric.com

Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, spring clamp or IDC connection technology
 - Wire cross sections up to 240 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safety sensors
 - Safety relays
 - Modular safety systems with fieldbus link
- PLC and fieldbus components
 - Standard applications in IP20
 - Increased environmental conditions with railroad and ship approvals
- Interface
 - Coupling relays, semiconductor switches
 - Measuring and monitoring relays
 - Timer and switching relays
 - Analog modules
 - Passive interfaces
 - Power supply units
 - Overvoltage protection

Solutions for field applications

- Remote automation technology
 - Power distribution
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
 - Square and round connectors
 - Aluminum or plastic housings
 - Degree of protection up to IP68
 - Current-carrying capacity up to 100A
 - Connectors for hazardous areas
 - Modular, application specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Hazardous Locations Technology

- DIN rail terminal blocks (Ex e) Class 1, Zone 1 (Zone 2, Division 2)
- Non-Incendive Barriers Class I, Zone 2 / Division 2
- flare Electromechanical Relays Class I, Division 2 (Zone 2)
- flare Solid State Relays Class I, Division 2 (Zone 2)
- flare Timers Class I, Division 2 (Zone 2)
- wipos Power Supplies Class I, Division 2 (Zone 2)
- wieNET Ethernet Switches Class I, Division 2 (Zone 2)
- revos Multipole Connectors Class I, Zone 2 (Division 2)
- gesis RST20i Connectors Class I, Zone 2 (Division 2)
- revos COAX Connectors Class I, Zone 2 (Division 2)

34.205.0161.1

**contacts
are
green.**

Product Range