



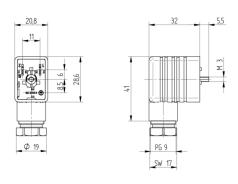
Product: GML 209 NJ LED 24 VR YE black ☑

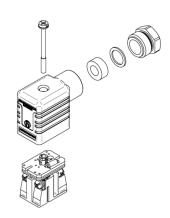
GML Industrial Standard Field Attachable Connector: Form B, 3-pin (2+1PE), UL 1977, translucent housing with black cable gland, screw type, PG9; with varistor and yellow LED, 24 V AC/DC, 10 A

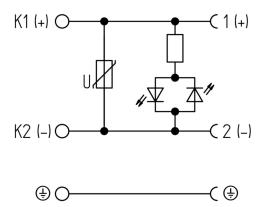
Product Description

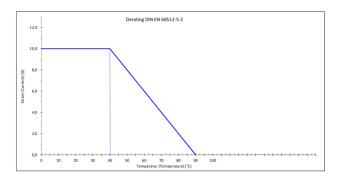
GML Industrial Standard Field Attachable Connector: Form B, 3-pin (2+1PE), UL 1977, translucent housing with black cable gland, screw type, PG9; with varistor and yellow LED, 24 V AC/DC, 10 A

Technical Drawing









Technical Specifications

Technical Data

Product Family:	Valve Connectors
Product Sub Family:	GML Industrial Standard
Brand:	Hirschmann
Connector Type:	Field attachable

Number of Pins: 2+PE Coding: B Shielding: Unshielded Attachment Type: Central Screw Rated Voltage: 30 V AC/DC Rated Voltage (UL): 30 V Rated Voltage (SA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PC9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (2008/01); VDE 0110-1 Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1 <th>Type of Contact / Gender:</th> <th>Female</th>	Type of Contact / Gender:	Female
Coding: B Shielding: Unshielded Attachment Type: Central Screw Rated Voltage: 30 V AC/DC Rated Voltage (UL): 30 V Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Rated Current (SSA)*: 5 10 mOhm Insulation Resistance: > 10 no hm Mating Cycles: 5 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: 0.4.5 - 7 mm Ambient Temperature (Operation)*: 25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating***: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (VDE 0110-1)	Connector Design:	Angled
Shielding: Unshielded Attachment Type: Central Screw Rated Voltage: 30 V AC/DC Rated Voltage (UL): 30 V Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current: 10 A Rated Current (UL)*: 8 A Rated Current (GSA)*: 8 A Rated Current (GSA)*: 8 A Contact Resistance: > 10*9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (UC): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Number of Pins:	2+PE
Attachment Type: Central Screw Rated Voltage: 30 V AC/DC Rated Voltage (UL): 30 V Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: \$10 mOhm Insulation Resistance: \$10 mOhm Insulation Resistance: \$10 mOhm Mating Cycles: \$50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 * 1.5 mm² Suitable Cables: Ø 4.5 * 7 mm Ambient Temperature (Operation)**: 25 * ° C * +90 * ° C Operating Temperature (UL): max. * +90 * ° C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (VDE 0110-1)	Coding:	В
Rated Voltage: 30 V AC/DC Rated Voltage (UL): 30 V Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operating)*: 25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Shielding:	Unshielded
Rated Voltage (UL): 30 V Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Attachment Type:	Central Screw
Rated Voltage (CSA): 30 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Greepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Voltage:	30 V AC/DC
Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 24 V AC/DC Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10°9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)**: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Voltage (UL):	30 V
Operating Voltage: 24 V AC/DC Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Voltage (CSA):	30 V
Rated Current*: 10 A Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)**: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Rated Current (UL)*: 8 A Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Operating Voltage:	24 V AC/DC
Rated Current (CSA)*: 8 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Current*:	10 A
Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Current (UL)*:	8 A
Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Rated Current (CSA)*:	8 A
Mating Cycles: ≤ 50 Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Contact Resistance:	≤ 10 mOhm
Type of Connection: Screw Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Insulation Resistance:	> 10^9 Ohm
Cable Gland: PG9 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Mating Cycles:	≤ 50
Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Type of Connection:	Screw
Suitable Cables: Ø 4.5 - 7 mm Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Cable Gland:	PG9
Ambient Temperature (Operation)*: -25 °C - +90 °C Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Conductor Cross Section:	0.25 - 1.5 mm ²
Operating Temperature (UL): max. + 90 °C Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Suitable Cables:	Ø 4.5 - 7 mm
Protection Degree / IP Rating**: IP65 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Ambient Temperature (Operation)*:	-25 °C - +90 °C
Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Operating Temperature (UL):	max. + 90 °C
Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Protection Degree / IP Rating**:	IP65
	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1)	Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuZn
Contact Plating:	Cu/Sn
Contact Bearer Material:	PA GF
Contact Bearer Color:	black
Flammability Class (Contact Bearer):	UL 94 HB
Housing Material:	PA GF
Housing Color:	Translucent housing with black cable gland
Flammability Class (Housing):	UL 94 HB
Cable Gland Material:	PA GF
Cable Gland Gasket:	NBR
Cable Gland Color:	black
Flammability Class (Cable Gland):	UL 94 HB
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Sold separately

Protection Circuitry

Function Indicator:	Yellow LED
Protective Circuit:	Varistor

Additional Technical Data

Fastening Torque (Contact Screw):	$(40\text{-}50) \ \text{Ncm for conductor size } 0.25 \text{-} 1.5 \ \text{mm}^2; \\ (30\text{-}40) \ \text{Ncm for conductor size } 0.34 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25\text{-}30) \ \text{Ncm for conductor size } 0.25 \ \text{mm}^2; \\ (25$	
Fastening Torque (Cable Gland):	(150-200) Ncm	
Fastening Torque (Attachment):	(50-60) Ncm	

Approvals

UL-File:	E95522
UL:	UL 1977; UR
VDE:	yes

CSA:	yes
SEV:	yes

Safety & Environmental Compliance

oHS Compliant:

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description
933929100	GML 209 NJ LED 24 VR YE black

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