



ATEX Safety Instruction Manual

D5000 series



Note: This manual contains only safety instructions.

For the complete installation and user manuals, data sheets and certificates, supplier code of conduct, code of ethics, terms and conditions of sale and warranty please refer to www.gmiinternational.com.

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1 Installation information

1.1 General

D5000 series are apparatus installed into standard EN/IEC60715 TH 35 DIN-Rail located in Safe Area or Zone 2 within the specified operating temperature limits (for complete details please refer to table 1). They can be mounted with any orientation over the entire ambient temperature range.

The end user is responsible to ensure that the operating temperature of the module is not exceeded in the end use application.

Units must be protected against dirt, dust, extreme mechanical (e.g. vibration, impact and shock) and thermal stress, and casual contacts.

Electrical connections are accommodated by polarized removable screw terminal blocks which can be plugged in/out into a powered unit without suffering or causing any damage. Connect only one individual conductor per each clamping point, use conductors up to 2.5 mm² and a torque value of 0.5-0.6 Nm. The wiring cables have to be proportionate in base to the current and the length of the cable.

D5000 series must be installed, operated and maintained only by qualified personnel, in accordance to the relevant national/international installation standards (e.g. EN/IEC 60079-14 Explosive atmospheres - Part 14: Electrical installations design, selection and erection), following the established installation rules.

According to EN/IEC61010, D5000 power supplies must be connected to SELV or SELV-E supplies.

All circuits connected to D5000 must comply with the overvoltage category II (or better) according to EN/IEC 60664-1.

Failure to properly installation or use of the equipment may risk to damage the unit or severe personal injury.

For those models having a relay output: connect relay contacts checking the load rating to be within the contact maximum rating. To prevent relay contacts from damaging, connect an external protection (fuse or similar), chosen according to the relay breaking capacity diagram from installation instructions (for complete details please refer to table 2, if present).

For those models having a transistor output: connect transistor contacts checking the load rating to be within the contact maximum rating (for complete details please refer to table 2, if present).

For those models having contacts rated more than 50 Vac or 75 Vdc: de-energize main power source (turn off power supply voltage) and disconnect plug-in terminal blocks before opening the enclosure to avoid electrical shock when connected to live hazardous potential.

Storage: if the unit is not installed directly on a system (parts for spare or expansion with long storage periods), it must be conveniently stocked. Stocking area characteristics must comply with the following parameters: temperature -45 to +80°C; humidity 0 to 95%.

Vibration: no prolonged vibration should be perceivable in the stocking area to avoid loosening of parts or fatigue ruptures of components terminals.

Pollution: presence of pollutant or corrosive gases or vapours must be avoided to prevent corrosion of conductors and degradation of insulating surfaces.

For complete instruction manual, datasheet and certifications please refer to our website www.gminternational.com.

1.2 Installation for intrinsically safe associated apparatus application

D5000 series must be connected to equipment with a maximum limit for power supply U_m of 250 Vrms or Vdc. Not to be connected to control equipment that uses or generates more than 250 Vrms or Vdc with respect to earth ground.

Intrinsically safe conductors must be identified and segregated from non I.S. and wired in accordance to the relevant national/international installation standards (e.g. EN/IEC 60079-14 Explosive atmospheres - Part 14: Electrical installations design, selection and erection), make sure that conductors are well isolated from each other and do not produce any unintentional connection.

Warning: substitution of components may impair intrinsic safety.

In the system safety analysis, always check that field device maximum allowable voltage, current and power are not exceeded by the safety parameters of the D5000 series associated apparatus connected to it. Check also that added connecting cable and field device capacitance and inductance do not exceed the limits given in the associated apparatus parameters for the effective gas group (Co, Lo, Lo/Ro).

Associated apparatus		Field device
Uo	≤	Ui
Io	≤	Ii
Po	≤	Pi
Co	≥	Ci + Ccable
Lo	≥	Li + Lcable
Lo/Ro	≥	Li/Ri and Lcable/Rcable

When used with separate powered intrinsically safe devices, check also that maximum allowable voltage, current and power of the D5000 series associated apparatus are not exceeded by the safety parameters of the field device.

Associated apparatus		Field device
Ui	≥	Uo
Ii	≥	Io
Pi	≥	Po
Ci + Ccable	≤	Co
Li + Lcable	≤	Lo

See parameters indicated in "Intrinsically safe parameters" section.

For installations in which both the Ci and Li of the field device exceed 1% of the Co and Lo parameters of the associated apparatus (excluding the cable), then 50% of Co and Lo parameters are applicable and shall not be exceeded (50% of the Co and Lo become the limits which must include the cable such that Ci device + C cable ≤ 50% of Co and Li device + L cable ≤ 50% of Lo). The reduced capacitance of the external circuit (including cable) shall not be greater than 1 μF for Groups I, IIA, IIB, IIIC and 600 nF for Group IIC. If the cable parameters are unknown, the following value may be used: Capacitance 200 pF per meter (60 pF per foot), inductance 1 μH per meter (0.20 μH per foot).

1.3 Installation for zone 2 application

De-energize power source (turn off power supply voltage) before plug or unplug the terminal blocks or before servicing, unless area is known to be nonhazardous.

Warning: substitution of components may impair suitability for zone 2.

Electrostatic Hazard: to avoid electrostatic hazard, the enclosure of D5000 series must be cleaned only with a damp or antistatic cloth.

1.3.1 Special conditions for safe use

The equipment shall only be used in an area of at least pollution degree 2, as defined in EN/IEC 60664-1. When installed in zone 2, the unit shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN/IEC 60079-0. The enclosure must have a door or cover accessible only by the use of a tool.

Only for 5700 series:

5700 series is only to be mounted on Termination Boards, Models TBE-D5001-HRT-xxx (xxx ≥ 003).

Mini USB connector is intended for configuration purposes and shall not be used when installed in Hazardous Area, unless area is known to be non-hazardous.

1.4 Inspection, maintenance and repair

The unit cannot be repaired by the end user and must be returned to the manufacturer or his authorized representative.

If enclosure needs to be cleaned use only a cloth lightly moistened by a mixture of detergent in water.

2 Certification data

2.1 Table 1: Certificates and operating temperature

Model family	Certificate n.	Standards	Markings	Operating temperature
5700	UL 20 ATEX 2492X	EN 60079-0 EN 60079-7	II 3G Ex ec IIC T4 Gc	-40 + 70 °C
D5011	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5014	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5015	BVS 20 ATEX E 023 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5016	UL 22 ATEX 2892X	EN 60079-0 EN 60079-11 EN 60079-7 EN 50303	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5020	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5030	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5031	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5032	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5034	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5036	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5037	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5038	DEMKO 19 ATEX 2290X	EN 60079-0 EN 60079-11 EN 60079-7 EN 50303	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5039	DEMKO 19 ATEX 2290X	EN 60079-0 EN 60079-11 EN 60079-7 EN 50303	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5040	BVS 14 ATEX E 159 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5048	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ja Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C

Model family	Certificate n.	Standards	Markings	Operating temperature
D5049	BVS 10 ATEX E 113 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5062	UL 21 ATEX 2562X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5072	BVS 12 ATEX E 053 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5072-087	BVS 12 ATEX E 053 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5072-096	BVS 12 ATEX E 053 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	40 + 70 °C
D5072-099	BVS 12 ATEX E 053 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5090	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5090-086	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5091	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5093	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-7	II 3G Ex ec IIC T4 Gc	-40 + 70 °C
D5094	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5095	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5096	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5097	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5098	IMQ 17 ATEX 009 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5099	BVS 18 ATEX E 079 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5202	BVS 14 ATEX E 031 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5212	DEMKO 18 ATEX 2017X	EN 60079-0 EN 60079-11 EN 60079-7 EN 50303	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5231	UL 22 ATEX 2809X	EN 60079-0 EN 60079-11 EN 60079-7 EN 50303	II 3(1)G Ex ec [ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C

Model family	Certificate n.	Standards	Markings	Operating temperature
D5232	UL 24 ATEX 3258X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5233	UL 24 ATEX 3258X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5240	BVS 14 ATEX E 159 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5244	BVS 16 ATEX E 109 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5254	BVS 16 ATEX E 066 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5263	TUV 15 ATEX 170897 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5264	TUV 15 ATEX 170897 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5273	BVS 12 ATEX E 053 X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5274	UL 24 ATEX 3257X	EN 60079-0 EN 60079-11 EN 60079-15 EN 60079-7	II 3(1)G Ex ec nC [Ia Ga] IIC T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C
D5290	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 60 °C
D5290-078	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 60 °C
D5291	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 60 °C
D5293	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5294	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
D5295	BVS 10 ATEX E 114 X	EN 60079-0 EN 60079-15 EN 60079-7	II 3G Ex ec nC IIC T4 Gc	-40 + 70 °C
PSD5201	BVS 14 ATEX E 023 X	EN 60079-0 EN 60079-11 EN 60079-7	II 3(1)G Ex ec [Ia Ga] IIB T4 Gc II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	-40 + 70 °C

2.2 Table 2: Contacts ratings

Model family	Contacts type	Contacts function	Contacts ratings
D5020	Transistor	Fault	100 mA at 35 Vdc (≤ 1.5 V voltage drop)

Model family	Contacts type	Contacts function	Contacts ratings
D5030	Relay	Load	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5031	Transistor	Out	100 mA at 35 Vdc (≤ 1.5 V voltage drop)
D5032	Relay	Out	100 mA 50 Vac 5 VA, 100 mA 50 Vdc 5 W resistive load
D5036	Relay	Out	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5037	Transistor	Out	100 mA at 35 Vdc (≤ 1.5 V voltage drop)
D5048	Transistor	Fault	100 mA at 35 Vdc (≤ 1.5 V voltage drop)
D5049	Transistor	Fault	100 mA at 35 Vdc (≤ 1.5 V voltage drop)
D5072	Transistor	Alarm	100 mA at 60 Vdc (≤ 1 V voltage drop)
D5072-099	Transistor	Alarm	100 mA at 60 Vdc (≤ 1 V voltage drop)
D5090	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5090-086	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5091	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5093	Transistor	Out	50 mA at 35 Vdc (≤ 1 Vdc voltage drop)
D5094	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5095	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5096	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
	Transistor	Fault	100 mA at 35 V (≤ 1.0 V voltage drop)
D5097	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
	Transistor	Fault	100 mA at 35 V (≤ 1.0 V voltage drop)
D5098	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5099	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5202	Relay	Fault	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5212	Transistor	Alarm	100 mA at 60 V (≤ 1.0 V voltage drop)
D5231	Transistor	Out	100 mA at 35 V (≤ 1.0 V voltage drop)
D5232	Relay	Out	2 A 250 Vac 500 VA, 2 A 250 Vdc 80 W resistive load.
D5233	Transistor	Out	100 mA at 35 V (≤ 1.0 V voltage drop)
D5244	Relay	Load	40 Vdc, 2 A (I.S. appl.), 2 A 250 Vac 500 VA, 2 A 250 Vdc 80 W, resistive load (non I.S. appl.)
D5254	Relay	Alarm	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5264	Transistor	Alarm	100 mA at 60 V (≤ 1.0 V voltage drop)
D5273	Relay	Alarm	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5274	Relay	Alarm	4 A 250 Vac 1000 VA, 4 A 250 Vdc 120 W resistive load
D5290	Relay	Load	10 A 250 Vac 2500 VA, 10 A 250 Vdc 300 W resistive load
D5290-078	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 175 W resistive load
D5291	Relay	Load	10 A 250 Vac 2500 VA, 10 A 250 Vdc 300 W resistive load
D5293	Relay	Fault 1	500 mA 30 Vac 15 VA, 500 mA 50 Vdc 25 W resistive load
	Relay	Fault 2	3 A 250 Vac 750 VA, 3 A 125 Vdc 120 W resistive load
	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5294	Relay	Fault 1	500 mA 30 Vac 15 VA, 500 mA 50 Vdc 25 W resistive load
	Relay	Fault 2	3 A 250 Vac 750 VA, 3 A 125 Vdc 120 W resistive load
	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load
D5295	Relay	Fault 1	500 mA 30 Vac 15 VA, 500 mA 50 Vdc 25 W resistive load
	Relay	Fault 2	3 A 250 Vac 750 VA, 3 A 125 Vdc 120 W resistive load
	Relay	Load	5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W resistive load

3 Intrinsically safe parameters

D5011 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =25.9 V; I _o =92 mA; P _o =594 mW Characteristic: linear	IIC	0.1	4.2	59.9
	IIB	0.77	16.8	239.7
	IIA	2.63	33.7	479.4
	I	4.02	55.2	786.6
	IIIC	0.77	16.8	239.7

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5014 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =25.9 V; I _o =92 mA; P _o =594 mW Characteristic: linear	IIC	0.1	4.2	59.9
	IIB	0.77	16.8	239.7
	IIA	2.63	33.7	479.4
	I	4.02	55.2	786.6
	IIIC	0.77	16.8	239.7
Term. 10-12 (passive input), 8-11 (passive input): U _o =1.1 V; I _o =56 mA; P _o =16 mW U _i =30 V; I _i =128 mA; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	100	11.5	2327.2
	IIB	1000	46	9309
	IIA	1000	92.1	18618.1
	I	1000	151.1	30545.4
	IIIC	1000	46	9309

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5015 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8: U _o =26.8 V; I _o =92 mA; P _o =614 mW Characteristic: linear	IIC	0.092	4.2	57.9
	IIB	0.72	16.9	231.6
	IIA	2.37	33.8	463.3
	I	4.2	55.4	760.1
	IIIC	0.72	16.9	231.6
Term. 8-11 (passive input): U _o =1.1 V; I _o =56 mA; P _o =16 mW U _i =30 V; I _i =128 mA; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	100	11.5	2327.2
	IIB	1000	46	9309
	IIA	1000	92.1	18618.1
	I	1000	151.2	30545.4
	IIIC	1000	46	9309

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5016 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =8.8 V; I _o =0 mA; P _o =0 mW U _i =30 V; I _i =100 mA; C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	5.4	1000	
	IIB	45.9	1000	
	IIA	729.9	1000	
	I	999.9	1000	
	IIIC	45.9	1000	

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5020 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =25.9 V; I _o =93 mA; P _o =595 mW Characteristic: linear	IIC	0.1	4.1	59.7
	IIB	0.77	16.7	239
	IIA	2.63	33.5	478.1
	I	4.02	54.9	784.5
	IIIC	0.77	16.7	239

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5030 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	2.41	78.3	635.9
	IIB	16.8	313.4	2543.9
	IIA	75	626.9	5087.9
	I	66	1028.6	8347.4
	IIIC	16.8	313.4	2543.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5031 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	2.41	78.3	635.9
	IIB	16.8	313.4	2543.9
	IIA	75	626.9	5087.9
	I	66	1028.6	8347.4
	IIIC	16.8	313.4	2543.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5032 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	2.41	78.3	635.9
	IIB	16.8	313.4	2543.9
	IIA	75	626.9	5087.9
	I	66	1028.6	8347.4
	IIIC	16.8	313.4	2543.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5034 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =15 mA; P _o =39 mW Characteristic: linear	IIC	2.41	163.2	918.2
	IIB	16.8	652.8	3672.9
	IIA	75	1305.6	7345.8
	I	66	2142	12051.8
	IIIC	16.8	652.8	3672.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5036 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	2.41	78.3	635.9
	IIB	16.8	313.4	2543.9
	IIA	75	626.9	5087.9
	I	66	1028.6	8347.4
	IIIC	16.8	33.4	2543.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5037 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW C _i =1.1 nF; L _i =0 μH Characteristic: linear	IIC	2.41	78.3	635.9
	IIB	16.8	313.4	2543.9
	IIA	75	626.9	5087.9
	I	66	1028.6	8347.4
	IIIC	16.8	33.4	2543.9

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5038 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW Characteristic: linear	IIC	2.4	78.3	635
	IIB	16.7	313.5	2543
	IIA	74.9	627.1	5087
	I	94.9	1028.8	8347
	IIIC	16.7	313.5	2543

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5039 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8, 9-10: U _o =10.5 V; I _o =22 mA; P _o =56 mW Characteristic: linear	IIC	2.4	78.3	635
	IIB	16.7	313.5	2543
	IIA	74.9	627.1	5087
	I	94.9	1028.8	8347
	IIIC	16.7	313.5	2543

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5040 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 10-11 (Out A), 7-8 (Out A): U _o =25.2 V; I _o =146 mA; P _o =916 mW Characteristic: linear	IIC	0.107	1.67	38.8
	IIB	0.82	6.71	155.3
	IIA	2.9	13.42	310.7
	I	4.8	22.01	509.8
	IIIC	0.82	6.71	155.3

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 10-12 (Out B), 7-9 (Out B): U _o =25.2 V; I _o =108 mA; P _o =676 mW Characteristic: linear	IIC	0.107	3.07	52.6
	IIB	0.82	12.3	210.4
	IIA	2.9	24.61	420
	I	4.8	40.37	690.3
	IIIC	0.82	12.3	210.4
Term. 7//10-8//11 (Out A + Out A) (D5040D): U _o =25.2 V; I _o =292 mA; P _o =1831 mW Characteristic: linear	IIC	0	0	0
	IIB	0.82	1.67	77.6
	IIA	2.9	3.35	155.3
	I	4.8	5.5	254.9
	IIIC	0.82	1.67	77.6
Term. 7//10-9//12 (Out B + Out B) (D5040D): U _o =25.2 V; I _o =216 mA; P _o =1352 mW Characteristic: linear	IIC	0	0	0
	IIB	0.82	3.07	105.2
	IIA	2.9	6.15	210.4
	I	4.8	10.09	345.1
	IIIC	0.82	3.07	105.2
Term. 7//10-8//12 (Out A + Out B), 7//10-9//11 (Out A + Out B) (D5040D): U _o =25.2 V; I _o =254 mA; P _o =1592 mW Characteristic: linear	IIC	0	0	0
	IIB	0.82	2.22	89.3
	IIA	2.9	4.44	178.7
	I	4.8	7.28	293.2
	IIIC	0.82	2.22	89.3

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5048 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-10 (Out A): U _o =24.8 V; I _o =147 mA; P _o =907 mW Characteristic: linear	IIC	0.113	1.65	39.2
	IIB	0.86	6.63	156.8
	IIA	3.05	13.27	313.6
	I	4.35	21.78	514.6
	IIIC	0.86	6.63	156.8
Term. 8-10 (Out B): U _o =24.8 V; I _o =108 mA; P _o =667 mW Characteristic: linear	IIC	0.113	3.07	53.3
	IIB	0.86	12.3	213.5
	IIA	3.05	24.6	427
	I	4.35	40.36	700.6
	IIIC	0.86	12.3	213.5
Term. 9-10 (Out C): U _o =24.8 V; I _o =93 mA; P _o =571 mW Characteristic: linear	IIC	0.113	4.19	62.3
	IIB	0.86	16.79	249.4
	IIA	3.05	33.58	498.9
	I	4.35	55.09	818.5
	IIIC	0.86	16.79	249.4

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5049 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-10 (Out A): U _o =24.8 V; I _o =147 mA; P _o =907 mW Characteristic: linear	IIC	0.113	1.65	39.2
	IIB	0.86	6.63	156.8
	IIA	3.05	13.27	313.6
	I	4.35	21.78	514.6
	IIIC	0.86	6.63	156.8

		Co [μ F]	Lo [mH]	Lo/Ro [μ H/ Ω]
Term. 8-10 (Out B): U _o =24.8 V; I _o =108 mA; P _o =667 mW Characteristic: linear	IIC	0.113	3.07	53.3
	IIB	0.86	12.3	213.5
	IIA	3.05	24.6	427
	I	4.35	40.36	700.6
	IIIC	0.86	12.3	213.5
Term. 9-10 (Out C): U _o =24.8 V; I _o =93 mA; P _o =571 mW Characteristic: linear	IIC	0.113	4.19	62.3
	IIB	0.86	16.79	249.4
	IIA	3.05	33.58	498.9
	I	4.35	55.09	818.5
	IIIC	0.86	16.79	249.4

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5062 series

		Co [μ F]	Lo [mH]	Lo/Ro [μ H/ Ω]
Term. 7-8-9-10: U _o =27 V; I _o =90 mA; P _o =576 mW Characteristic: linear	IIC	0.09	4.1	56.8
	IIB	0.7	16.4	227.3
	IIA	2.3	33.9	454.7
	I	3.75	54	746.1
	IIIC	0.7	16.4	227.3
Term. 7/9-8 (with 2 wires constant current supply): U _o =27 V; I _o =90 mA; P _o =576 mW U _i =30 V; I _i =91 mA; C _i =0 nF; L _i =0 μ H Characteristic: linear	IIC	0.09	4.1	56.8
	IIB	0.7	16.4	227.3
	IIA	2.3	33.9	454.7
	I	3.75	54	746.1
	IIIC	0.7	16.4	227.3

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5072 series

		Co [μ F]	Lo [mH]	Lo/Ro [μ H/ Ω]
Term. 10-11-12, 7-8-9 (D5072D): U _o =7.2 V; I _o =16 mA; P _o =27 mW U _i =12.8 V; I _i =28.7 mA; C _i =0 nF; L _i =0 μ H Characteristic: linear	IIC	13.5	138	1290
	IIB	240	555	5160
	IIA	1000	1111	10330
	I	1000	1822	16950
	IIIC	240	555	5160
Term. 7-8-9-10 (D5072S): U _o =7.2 V; I _o =23 mA; P _o =40 mW U _i =12.8 V; I _i =28.7 mA; C _i =0 nF; L _i =0 μ H Characteristic: linear	IIC	13.5	67.2	875
	IIB	240	268.8	3500
	IIA	1000	537.7	7000
	I	1000	882.2	11480
	IIIC	240	268.8	3500

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5072-087 series

		Co [μ F]	Lo [mH]	Lo/Ro [μ H/ Ω]
Term. 10-11-12, 7-8-9 (D5072D-087): U _o =7.2 V; I _o =16 mA; P _o =27 mW U _i =12.8 V; C _i =0 nF; L _i =0 μ H Characteristic: linear	IIC	13.5	138	1290
	IIB	240	555	5160
	IIA	1000	1111	10330
	I	1000	1822	16950
	IIIC	240	555	5160

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 7-8-9-10 (D5072S-087): U _o =7.2 V; I _o =23 mA; P _o =40 mW U _i =12.8 V; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	67.2	875
	IIB	240	268.8	3500
	IIA	1000	537.7	7000
	I	1000	882.2	11480
	IIIC	240	268.8	3500

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5072-096 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 11-12, 7-8 (D5072D-096): U _o =7.2 V; I _o =16 mA; P _o =27 mW U _i =12.8 V; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	138	1290
	IIB	240	555	5160
	IIA	1000	1111	10330
	I	1000	1822	16950
	IIIC	240	555	5160
Term. 7-8 (D5072S-096): U _o =7.2 V; I _o =23 mA; P _o =40 mW U _i =12.8 V; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	67.2	875
	IIB	240	268.8	3500
	IIA	1000	537.7	7000
	I	1000	882.2	11480
	IIIC	240	268.8	3500

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5072-099 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 10-11-12, 7-8-9 (D5072D-099): U _o =7.2 V; I _o =16 mA; P _o =27 mW U _i =12.8 V; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	138	1290
	IIB	240	555	5160
	IIA	1000	1111	10330
	I	1000	1822	16950
	IIIC	240	555	5160
Term. 7-8-9-10 (D5072S-099): U _o =7.2 V; I _o =23 mA; P _o =40 mW U _i =12.8 V; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	67.2	875
	IIB	240	268.8	3500
	IIA	1000	537.7	7000
	I	1000	882.2	11480
	IIIC	240	268.8	3500

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5212 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14, 15-16, 17-18, 19-20: U _o =24.1 V; I _o =86 mA; P _o =516 mW Characteristic: linear	IIC	0.121	4.85	68.9
	IIB	0.917	19.43	275.9
	IIA	3.307	38.86	551.9
	I	5.197	63.76	905.6
	IIIC	0.917	19.43	275.9

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 21-22, 23-24: U _o =1.1 V; I _o =56 mA; P _o =16 mW U _i =30 V; I _i =128 mA; C _i =2.1 nF; L _i =0 μH Characteristic: linear	IIC	99	11.63	2339
	IIB	999	46.54	9356.1
	IIA	999	93.09	18712.2
	I	999	152.73	30699.7
	IIIC	999	46.54	9356.1

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is not provided between separated intrinsically safe circuits.

D5231 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 21-13, 21-14, 22-15, 22-16, 23-17, 23-18, 24-19, 24-20: U _o =10.9 V; I _o =12 mA; P _o =31 mW C _i =11 nF Characteristic: linear	IIC	2	270	1147
	IIB	14.3	1000	4590
	IIA	62.9	1000	9181
	I	69.9	1000	15063
	IIIC	14.3	1000	4590

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is not provided between separated intrinsically safe circuits.

D5232 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14, 15-16, 17-18, 19-20: U _o =11.2 V; I _o =12 mA; P _o =34 mW Characteristic: linear	IIC	1.83	253.4	1074
	IIB	12.5	1000	4299
	IIA	53.9	1000	8599
	I	57.9	1000	14108
	IIIC	12.5	1000	4299

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is not provided between separated intrinsically safe circuits.

D5233 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14, 15-16, 17-18, 19-20: U _o =11.2 V; I _o =12 mA; P _o =34 mW Characteristic: linear	IIC	1.83	253.4	1074
	IIB	12.5	1000	4299
	IIA	53.9	1000	8599
	I	57.9	1000	14108
	IIIC	12.5	1000	4299

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is not provided between separated intrinsically safe circuits.

D5240 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14 (Out A), 17-18 (Out A), 21-22 (Out A): U _o =25.2 V; I _o =146 mA; P _o =916 mW C _i =11 nF Characteristic: linear	IIC	0.096	1.67	38.8
	IIB	0.809	6.71	155.3
	IIA	2.889	13.42	310.7
	I	4.789	22.01	509.8
	IIIC	0.809	6.71	155.3

		Co [μ F]	Lo [mH]	Lo/Ro [μ H/ Ω]
Term. 13//17//21 (Out A + Out A + Out C): U _o =25.2 V; I _o =384 mA; P _o =2138 mW C _i =33 nF Characteristic: linear	IIC	0	0	0
	IIB	0	0	0
	IIA	2.867	1.93	118
	I	4.767	3.17	193.6
	IIIC	0.787	0.96	59
Term. 13//17//21 (Out A + Out A + Out A): U _o =25.2 V; I _o =437 mA; P _o =2138 mW C _i =33 nF Characteristic: linear	IIC	0	0	0
	IIB	0	0	0
	IIA	2.867	1.49	103.5
	I	4.767	2.44	169.9
	IIIC	0	0	0
Term. 13-15 (Out B), 17-19 (Out B), 21-23 (Out B): U _o =25.2 V; I _o =108 mA; P _o =676 mW C _i =11 nF Characteristic: linear	IIC	0.096	3.07	52.6
	IIB	0.809	12.3	210.4
	IIA	2.889	24.61	420
	I	4.789	40.37	690.3
	IIIC	0.809	12.3	210.4
Term. 13-16 (Out C), 17-20 (Out C), 21-24 (Out C): U _o =25.2 V; I _o =93 mA; P _o =580 mW C _i =11 nF Characteristic: linear	IIC	0.096	4.18	61.3
	IIB	0.809	16.72	245.3
	IIA	2.889	33.45	490.6
	I	4.789	54.88	804.9
	IIIC	0.809	16.72	245.3
Term. 13//17-16//20 (Out C + Out C), 13//21-16//24 (Out C + Out C), 17//21-20//24 (Out C + Out C): U _o =25.2 V; I _o =185 mA; P _o =1160 mW C _i =22 nF Characteristic: linear	IIC	0	0	0
	IIB	0.798	4.18	122.6
	IIA	2.878	8.36	245.3
	I	4.778	13.72	402.4
	IIIC	0.798	4.18	122.6
Term. 13//17-15//19 (Out B + Out B), 13//21-15//23 (Out B + Out B), 17//21-19//23 (Out B + Out B): U _o =25.2 V; I _o =216 mA; P _o =1352 mW C _i =22 nF Characteristic: linear	IIC	0	0	0
	IIB	0.798	3.07	105.2
	IIA	2.878	6.15	210.4
	I	4.778	10.09	345.1
	IIIC	0.798	3.07	105.2
Term. 13//17-14//20 (Out A + Out C), 13//21-14//24 (Out A + Out C), 17//13-18//16 (Out A + Out C): U _o =25.2 V; I _o =238 mA; P _o =1496 mW C _i =22 nF Characteristic: linear	IIC	0	0	0
	IIB	0.798	2.51	95.1
	IIA	2.878	5.03	190.2
	I	4.778	8.25	312.1
	IIIC	0.798	2.51	95.1
Term. 13//17//21 (Out C + Out C + Out C): U _o =25.2 V; I _o =277 mA; P _o =1740 mW C _i =33 nF Characteristic: linear	IIC	0	0	0
	IIB	0.787	1.85	81.7
	IIA	2.867	3.71	163.5
	I	4.767	6.09	268.3
	IIIC	0.787	1.85	81.7
Term. 13//17//21 (Out B + Out B + Out B): U _o =25.2 V; I _o =323 mA; P _o =2028 mW C _i =33 nF Characteristic: linear	IIC	0	0	0
	IIB	0.787	1.36	70.1
	IIA	2.867	2.73	140.2
	I	4.767	4.48	230.1
	IIIC	0.787	1.36	70.1
Term. 13//17//21 (Out A + Out B + Out B): U _o =25.2 V; I _o =361 mA; P _o =2138 mW C _i =33 nF Characteristic: linear	IIC	0	0	0
	IIB	0	0	0
	IIA	2.867	2.18	125.4
	I	4.767	3.58	205.8
	IIIC	0.787	1.09	62.7

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is not provided between separated intrinsically safe circuits.

D5244 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14-15/16, 17-18-19/20: U _o =0 V; I _o =0 mA; P _o =0 mW U _i =40 V; I _i =2 A; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC			
	IIB			
	IIA			
	I			
	IIIC			

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits. Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between separated intrinsically safe circuits.

D5254 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14: U _o =26 V; I _o =91 mA; P _o =588 mW C _i =2.1 nF; L _i =0 μH Characteristic: linear	IIC	0.096	4.34	0
	IIB	0.767	17.36	242.2
	IIA	2.597	34.72	484.4
	I	4.497	56.96	794.7
	IIIC	0.767	17.36	242.2
Term. 14-16: U _o =1.1 V; I _o =56 mA; P _o =16 mW U _i =30 V; I _i =126 mA; C _i =2.1 nF; L _i =0 μH Characteristic: linear	IIC	100	11.5	1000
	IIB	1000	46	9356
	IIA	1000	92.1	18712
	I	1000	100	30699
	IIIC	1000	46	9356
Term. 15-16: U _o =1.1 V; I _o =12 μA; P _o =4 μW U _i =30 V; C _i =2.1 nF; L _i =0 μH Characteristic: linear	IIC	100	100	1000
	IIB	1000	100	1000
	IIA	1000	100	1000
	I	1000	100	1000
	IIIC	1000	100	1000

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5263 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14-15-16-17-18: U _o =7.2 V; I _o =177 mA; P _o =471 mW C _i =1.1 μF Characteristic: trapezoidal	IIC	0.5	0.5	0
	IIB	2.6	8.7	0
	IIA	11.9	16	0
	I	10.9	29	0
	IIIC	2.6	8.7	0

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5264 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14-15-16-17-18: U _o =7.2 V; I _o =177 mA; P _o =471 mW C _i =1.1 μF Characteristic: trapezoidal	IIC	0.5	0.5	0
	IIB	2.6	8.7	0
	IIA	11.9	16	0
	I	10.9	29	0
	IIIC	2.6	8.7	0

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5273 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14-15-16: U _o =7.2 V; I _o =23 mA; P _o =40 mW U _i =12.8 V; I _i =28.7 mA; C _i =0 nF; L _i =0 μH Characteristic: linear	IIC	13.5	67.2	875
	IIB	240	268.8	3500
	IIA	1000	537.7	7000
	I	1000	882.2	11480
	IIIC	240	268.8	3500

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

D5274 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13-14-15-16: U _o =7 V; I _o =22 mA; P _o =38 mW U _i =20 V; C _i =4.5 nF; L _i =0 μH Characteristic: linear	IIC	15.6	77.6	954
	IIB	299	310.6	3818
	IIA	999	621.1	7636
	I	999	1000	12528
	IIIC	299	310.6	3818

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

PSD5201 series

		Co [uF]	Lo [mH]	Lo/Ro [uH/Ω]
Term. 13/15-14/16: U _o =21.5 V; I _o =604 mA; P _o =3243 mW Characteristic: linear	IIC	0	0	0
	IIB	1.2	0.39	43.8
	IIA	4.5	0.78	87.7
	I	6.5	1.28	143.9
	IIIC	1.2	0.39	43.8

Isolation in accordance with EN/IEC 60079-11 clause 6.3.13 is provided between non-intrinsically safe circuits and intrinsically safe circuits.

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Note: This manual contains only safety instructions.

For the complete installation and user manuals, data sheets and certificates, supplier code of conduct, code of ethics, terms and conditions of sale and warranty please refer to www.gminternational.com.