

TN2026:

# GfG FIXED SYSTEMS INSTRUMENT APPROVALS

Instrument	Main Label	Secondary Label	Approval
EC28 family		DEKRA	Marking: $\text{Ex}$ II 2G $\text{CE}$ 0158 Type of ignition protection: Ex emb [ib] IIC T4 -20°C≤Ta≤+50°C EC Type-Examination Certificate: BVS 04 ATEX E 132 X Electromagnetic Compatibility (EMC): Compliant with DIN EN 50270 Disturbance emission: type 1 Interference immunity: type 2
CC28 family		DEKRA	Labelling: II 2G C 0158 Ignition protection classification: Ex demb [ib] IIC T4 -20°C≤Ta≤+50°C EC-Type Examination Certificate: BVS 04 ATEX E 132 X (electrical Ex-Protection) Function test: BVS 05 ATEX G 001 X (measuring function) EMC test: EN 50270 Radio shielding: Type class I Interference resistance: Type class II
IR29 e family		DEKRA	$\text{Ex}$ II 1G Ex ia IIC T4 Ga I M1 Ex ia, I Ma $\text{Ex}$ II 2G Ex eb mb ib [ib] IIC T4 Gb
IR29 i family		DEKRA	Certification: $\text{Ex}$ II 1G 0158 Ignition protection class: Ex ia IIC T4 Ga -20 °C≤ Ta ≤+55 °C EC Type Examination Certificate: BVS 09 ATEX E 135 X Electrical parameters for the intrinsically safe connection Intrinsically safe supply circuit: Connection via terminals X1 and X2 Maximum input voltage: Ui DC 30 V Maximum internal capacity: Ci 11 nF Maximum internal inductance: Li negligible Intrinsically safe signal circuit: Connection via terminals X3 and X4 Maximum input voltage: Ui DC 30 V Maximum internal capacity: Ci 1.8 nF Maximum internal inductance: Li negligible
CC33 family		DEKRA	Ignition Protection Classification: $\text{Ex}$ II 2G Ex db IIC T6 Gb -20°C≤Ta≤+55°C (without Buzzer) $\text{Ex}$ II 2G Ex db ib IIC T4 Gb -20°C≤Ta≤+55°C (with Buzzer) $\text{Ex}$ II 2G Ex db ib IIC T6 Gb -20°C≤Ta≤+40°C (with Buzzer) Electromagnetic Compatibility: DIN EN 50270:2015 Interference emission: Type class I Interference immunity: Type class II
CC33 family		CSA	CAN/CSA C22.2 No. 61010-1-12, UPD1: 2015, UPD2: 2016, AMD1: 2018 UL 61010-1, 3rd edition (2012), AMD1: 2018
GMA 200 family		DEKRA	Electromagnetic Compatibility: EN 50270:2015 (interference emission: type class I, interference immunity: type class II) Electrical safety: EN 61010-1:2010 (Pollution degree 2, overvoltage category III for relay contacts) Functional safety: EN 50402:2017; IEC 61508-1 to -7:2010 (SIL2/SC3) Functional safety: EN 50271:2018; EN 62061:2016; ISO 13849-1:2015 Metrological suitability: EN 60079-29-1:2016 (EX); EN 50104:2019 (OX); EN 45544-1/-2/-3:2015 (TOX)
SB1		DEKRA	Certification: $\text{Ex}$ II(1)G 0158 Ignition protection class: [Ex ia Ga] IIC -20 °C≤Ta≤+55 °C EC Type Examination Certificate: BVS 11 ATEX E 164
GMA 40 family		DEKRA	Protection: DIN 40050 - IP -20 Protective separation: by safety transformer GMA44 EC, GMA44 ECB type: BV EI 306 2064 PRI 230V / SEC 18 V 50 - 60HZ Protective insulation: as per EN 61010 up to over voltage category III and soiling degree 2
RC 2		DEKRA	Electromagnetic compatibility: DIN EN 50270:2006 Type class I and Type class 2 Labeling and Ignition protection: $\text{Ex}$ II 2G Ex ia IIC T4 Gb -20°C≤Ta≤+50°C EC-Type Examination Certificate: BVS 04 ATEX E 212 Production monitoring: $\text{CE}$ 0158 (by notified body – DEKRA EXAM GmbH)
ZD 22		DEKRA	Electromagnetic compatibility: DIN EN 50270:2006 Interference: Type class I Immunity: Type class II
CS 22		DEKRA	Electromagnetic compatibility: DIN EN 50270:2006 Interference emission: Type class I Interference resistance: Type class II
IR22 family		CSA	CSA: CAN/CSA-C22.2 No. 61010-1-12 + Amd 1 - 18 UL 61010-1 (2012)
GMA200-MT family		CSA	CAN/CSA-C22.2 No. 61010-1-12 + Amd 1 - 18 UL 61010-1
CI21	CSA		CSA: c-CSA-us CSA C22.2 No. 205-M1983 UL: UL 916
ZD21	CSA		CAN/CSA-C22.2 No. 61010-1-12 + Amd 1 - 18 UL 61010-1 (2012)
D-ReX family & Py-ReX	CE UL		EN 50270:2015 (emitted interference: type class I, interference resistance: type class II) EN 301489-1 V2.2.3 (2019-11) EN 301489-17 V3.2.4 (2020-04)



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