



Technical Data

Data width	1 x 32-bit data, 1 x 8-bit status/diagnostics
Isolation	$U_m = 300$ VAC system/supply
Rated surge voltage	1 kV; Rated surge voltage between intrinsically safe and non-intrinsically safe circuits: 1.5 kV (EN 60079-11)
Connection technology	CAGE CLAMP®
Conductor range	0.25 ... 2.5 mm ² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.33 inch
Dimensions W x H x D	24 x 67.8 x 100 mm
Weight	88.2 g
Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	Max. 95 %, short-term condensation per Class 3K7 / IEC EN 60721-3-3 and E DIN 40046-721-3 (except wind-driven precipitation, water and ice formation)
Operating altitude	Without temperature derating: 0 ... 2000 m; With temperature derating: 2000 ... 5000 m (0.5 K/100 m); Maximum: 5000 m
Vibration resistance	Per IEC 60068-2-6 (acceleration: 5 g), EN 60870-2-2, IEC 60721-3-1, -3
Shock resistance	Per IEC 60068-2-27 (15 g/11 ms/half-sine/1,000 shocks; 25 g/6 ms/1,000 shocks), EN 61373
EMC immunity to interference	EN 61000-6-1, EN 61000-6-2, EN 61131-2 (marine applications), EN 60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEEE 1613, VDEW: 1994
EMC emission of interference	EN 61000-6-3 and EN 61000-6-4, EN 61131-2, EN 60255-26 (marine applications), EN 60870-2-1 and EN 61850-3 (industrial and residential areas)

Explosion Protection

Safety data – input	$U_o = 12$ V; $I_o = 13.3$ mA; $P_o = 40.4$ mW; Linear characteristic curve
Input reactances Ex ia IIC	$L_o = 100$ mH; $C_o = 1.41$ μ F
Input reactances Ex ia IIB	$L_o = 100$ mH; $C_o = 9$ μ F
Input reactances Ex ia IIA	$L_o = 100$ mH; $C_o = 36$ μ F
Input reactances Ex ia I inputs	$L_o = 100$ mH; $C_o = 35$ μ F
Safety data – output	$U_o = 26.8$ V; $I_o = 96.69$ mA; $P_o = 674.83$ mW; Linear characteristic curve
Output reactances Ex ia IIC	$L_o = 1.3$ mH; $C_o = 0.091$ μ F
Output reactances Ex ia IIB	$L_o = 13$ mH; $C_o = 0.719$ μ F
Output reactances Ex ia IIA	$L_o = 23$ mH; $C_o = 2.369$ μ F
Output reactances Ex ia I	$L_o = 33$ mH; $C_o = 3.849$ μ F
Reactances	Reactances without considering the concurrence of L and C; for reactances that account for the concurrence of L and C, see manual

Guidelines and Approvals

Conformity marking	CE
Ex guideline	EN/IEC 60079-0, -7, -11
Marine applications	ABS, DNV GL, LR, PRS
• E175199 Ordinary Locations	
TÜV 17 ATEX 196484 X	⊕ II 3 (1) G Ex ec [ia Ga] IIC T4 Gc ⊕ II (1) D [Ex ia Da] IIIC ⊕ I (M1) [Ex ia Ma] I
IECEx TUN 17.0005X	Ex ec [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I
• UL E198726 Hazardous Locations	Cl I, Div 2, Group A, B, C, D, T4