



Czech

INSPECTION CERTIFICATE

File number 13.456.026

Issued by inspection body No. 4002 accredited by CAI according to ČSN EN ISO/IEC 17020:2012

**Dinel, s.r.o.,
U Tescomy 249,
760 01 Zlín
Czech Republic**

We certify the compliance of bellow specified device, based on the results performed by the checking, testing and evaluation specified in TÜV SÜD Czech Inspection report evidence number 13.455.716 dated 2020-11-16:

Name: High-frequency level sensor RFLS-35, RFLS-28
Modifications: RFLS-35N-_-_-P-_, RFLS-35Xi(XiM)-_-_-R-_,
 RFLS-28N-_-_-P-_
Serial number: 200294 – modification RFLS-35/RFLS-35N-1E-G3/4-PD-C,
 200006 – modification RFLS-28/RFLS-28N-1E-G3/4-PD-B-K1

with requirements ČSN EN 61508-1 ed.2:2011 (idt EN 61508-1:2010),
 ČSN EN 61508-2 ed.2:2011 (idt EN 61508-2:2010),
 ČSN EN 61508-3 ed. 2:2011 (idt EN 61508-3:2010).

E/E/EP system related to safety of high-frequency level sensors RFLS-35/28 complies with the requirements of the safety integrity level SIL2 according to ČSN EN 61508 ed.2 series for safety functions 1-13 in the operation mode A.

Conditions of validity:

- specified in TÜV SÜD Czech Inspection report, evidence number 13.455.716, dated 2020-11-16.

Detailed technical data are specified on the page 2

In Ostrava, on the 16th November 2020



On behalf of TÜV SÜD Czech s.r.o. : Ing. Roman Prášek, Ph.D.

This language version of the inspection certificate is translation of a Czech official version of the inspection certificate file – No. 13.455.716 issued 2020-11-16, which is deemed the only one applicable in the event of legal disputes and was issued on 2020-11-16.

Detailed technical data characterizing the type of the product:

Name:	High-frequency level sensor RFLS-35, RFLS-28
Modifications:	RFLS-35N-__-P-_, RFLS-35Xi(XiM)-__-R-_, RFLS-28N-__-P-_-
Working area (according to ČSN EN 60079-10-1):	RFLS-35(28)N-__-P-_- area without the danger of detonation RFLS-35Xi-__-R-_- dangerous area (explosive gas atmospheres) RFLS-35XiM-__-R-_- mines with the occurrence of methane or coal dust
Supply voltage:	RFLS-35(28)N 7–34 V DC
Current consumption:	≤ 5 mA DC; output: transistor PNP with open collector (max. switching current 300 mA, max. residual voltage – ON state – 1,5 V)
Protection class:	IP 68 (outlets A, B, D, V, H), IP 67 (connector version C)
Temperature range – temperature of the area t_a:	from -40 to +80°C (RFLS 35N)
Temperature range – temperature in the location of process connection t_p:	RFLS-28N-1B (1E, 10B, 10E) from -40 °C to +80 °C RFLS-28N-1V (10V) from -20 °C to +80 °C RFLS-35N-1B(1E, 11B, 11E)-__-__ from -40 to +105°C (max 120°C for t _a <50°C and t<1h) RFLS-35N-1V(11V)-__-__ from -20 to +105°C (max 120°C for t _a <50°C and t<1h) RFLS-35N-2(21)-__-__ from -40 to +105°C (max 120°C for t _a <50°C and t<1h)_
Pressure durability:	RFLS-35_-1_(11_-)___ 10 MPa for the whole temp. range RFLS-35_-2(21)-___ 5 MPa up to 50°C, 2,5 MPa above 50°C
Supply voltage:	RFLS-35Xi (XiM) 8–9 V DC
Current consumption:	open < 1 mA, closed > 2,2 mA Output: NAMUR (current loop <1 / >2,2 mA)
Protection class:	IP 68 (outlets A, B, D, V, H), IP 67 (connector version C)
Temperature range – temperature of the area t_a:	from -40 to +80°C
Temperature range – temperature in the location of process connection t_p:	RFLS-35Xi(XiM)-1B(1E, 11B, 11E)-__-__ from -40 to +100°C (max 100°C for t _a <50°C and t<1h) RFLS-35 Xi(XiM)-1V(11V)-__-__ from -20 to +100°C (max 100°C for t _a <50°C and t<1h) RFLS-35 Xi(XiM)-2(21)-__-__ from -40 to +100°C (max 100°C for t _a <50°C and t<1h)
Pressure durability:	RFLS-35_-1_(11_-)___ 10 MPa for the whole temp. range RFLS-35_-2(21)-___ 5 MPa up to 50°C, 2,5 MPa above 50°C
Výrobce:	Dinel, s.r.o., U Tescomy 249, 760 01 Zlín