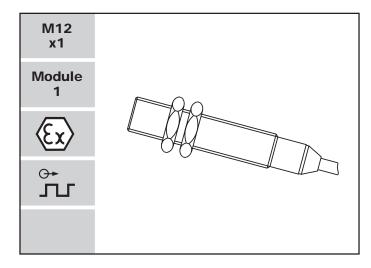


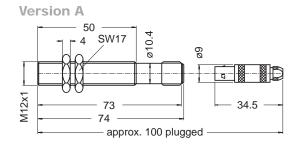
### DSF 1210 A, S, M



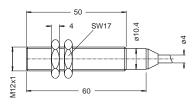
#### Features

- With amplifier
- Dynamic characteristic
- Lower frequency limit 0.05 Hz
- Available as model DSF 1210.00..V Ex in intrinsically safe class EEx ia IIC T6-T1 (zone 1)
- Available in intrinsically safe class EEx ia I (with exception of types with integral connector) e.g. for the mining industry

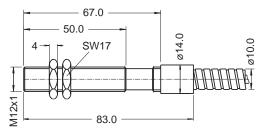
#### **Dimensions**



**Version S** 







#### **Model overview**

Туре	Part nr.	Connection	Housing thread	Weight [g]	Operating temperature [°C]
DSF 1210.00 AHV	374Z-03867	Plug	M12x1	35	-40+125
DSF 1210.00 AHV Ex	374Z-03823	Plug	M12x1	35	certificate of conformity
DSF 1210.00 ATV	374Z-03868	Plug	M12x1	35	-25+85
DSF 1210.00 MTV	374Z-03970	Protection hose 5m	M12x1	495	-25+85
DSF 1210.00 SHV	374Z-03869	Wire 2 m	M12x1	100	-40+125
DSF 1210.00 SHV	374Z-03880	Wire 5 m	M12x1	190	-40+125
DSF 1210.00 SHV Ex	374Z-03788	Wire 2 m	M12x1	100	certificate of conformity
DSF 1210.00 STV	374Z-03870	Wire 5 m	M12x1	160	-25+85
DSF 1210.00 STV Ex	374Z-03789	Wire 5 m	M12x1	160	certificate of conformity

# Ferrostat Sensor with amplifier

Type DSF 1210 Version A, S, M

## **Technical Data**

Supply Power supply	Supply voltage: 1030 V D.C., (Ex 828 V D.C.), max. superimposed A.C. voltage of 25 mVpp, protected against reverse polarity. Current consumption: max. 14 mA (without load).					
<b>Input</b> Frequency range Noise immunity Pole wheel	0.05 Hz20 kHz Cable shield connected to the supply negative pole. Noise generator between housing and electronics. 1.5 kV/1.5 ms/max. 5 Hz (source resistance 500 $\Omega$ ), 2.0 kV/HF-bursts (level 4 in accordance with IEC 801-4), 2.5 kV/1 MHz damped resonance (class III in accordance with IEC 255-4). Ferromagnetic toothed wheel, i.e. Ust37-2, involute gear form preferred. Module >1, min. tooth width 6 mm, side offset with min. tooth width: < 0.2 mm, eccentricity < 0.2 mm. Pole wheel-sensor gap with Module 1: 0.21.0 mm Module 2: 0.22.5 mm $\geq$ Module 4: 0.24.5 mm					
Output Signal output	Square wave signals from push-pull stage-, D.C. coupled to the supply (negative pole = reference voltage), max. load 25 mA, <u>Output voltage-HI:</u> > (supply voltage - 2.5 V) at I = 25 mA, <u>Output voltage-LO:</u> < 1.5 V at I = 25 mA, short circuit proof and protected against reverse polarity.	DSF				
Connection	$\begin{array}{c c} & & & & & & & \\ \hline & & & & & & \\ \hline & & & &$	V				
Mechanical Protection class Vibration immunity	IP68 (head), IP67 (cable connection, IP50 (jack connection). 5 g <sub>n</sub> in the range 52000 Hz.					
Shock immunity Operating temperature Insulation	50 g <sub>n</sub> during 20 ms, half sine wave. Acc. model overview. Housing, cable shield and electronics galvanically isolated (500 V/50 Hz/1 min).					
Housing Weight	Stainless steel 1.4305, front side hermetically sealed, electronic components potted in a chemical- and age-proof synthetic resin. Dimensions acc. to model overview and dimensional drawings. Acc. model overview.					
Operating instruction	374E-63710 version with integral connector, 374E-63709 version with integral cable, 374E-63901 intrinsically safe version.					
<b>Versions</b> Version A Version ST Version SH	<u>Connection type:</u> Part nr. 820A-35922; <u>Connection plug:</u> Part nr. 820A-35921. <u>PVC cable:</u> Part nr. 824L-35665, 3wire, 3 x 0.22 mm <sup>2</sup> (AWG 24), wire stranded (thermoplastic screening with continuity conductor, isolated from the housing), grey. Outer Ø max. 4.2 mm, Bending radius min. 60 mm, weight 25 g/m. <u>Teflon cable:</u> Part nr. 824L-35053, 4wire, 4 x 0.24 mm <sup>2</sup> (AWG 24), wire stranded (metal net, insulated from the housing), white.					
Version MT	Outer Ø max. 4.0 mm, bending radius min. 60 mm, weight 32 g/m. <u>Protection hose over PVC cable:</u> Tube 825G-36148 made of profile milled steel plate with PUR cover, blue. Weather and waterproof, conditionally oil and acid resistant. Outer Ø 10 mm, bending radius min. 32 mm, weight 75 g/m.					