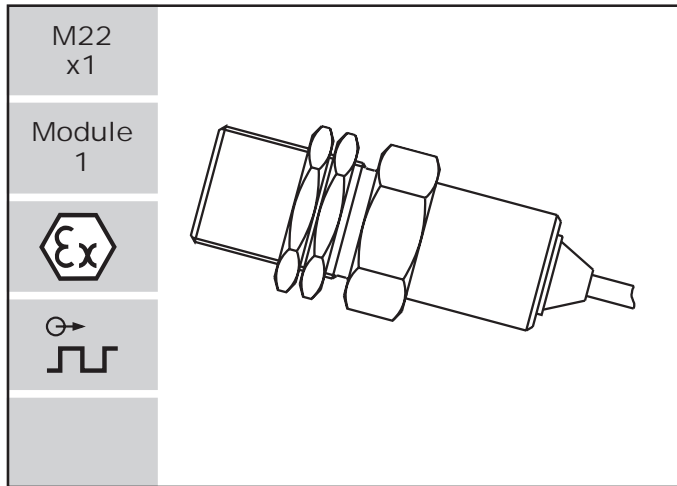


DSF 2210 A, S, M

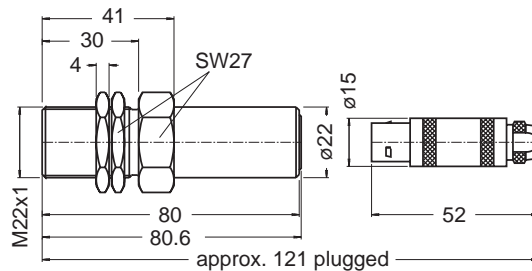


Features

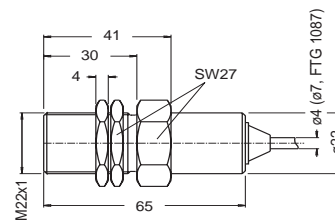
- With amplifier
- Dynamic characteristic
- Lower frequency limit 0.05 Hz
- Available as model DSF 2210.00..V Ex in intrinsically safe class EEx ia IIC T6-T1 (zone 1)
- Available in intrinsically safe class EEx ia I (with exception of types with integral connector) e.g. for the mining industry

Dimensions

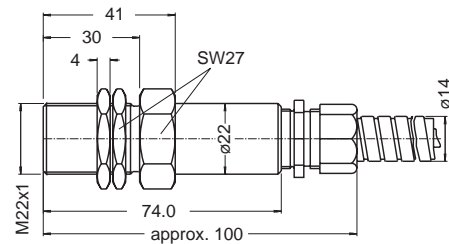
Version A



Version S



Version M



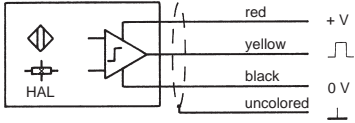
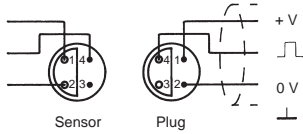
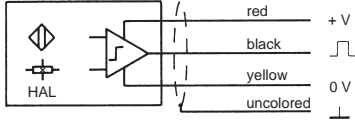
Model overview

Type	Part nr.	Connection	Housing thread	Weight [g]	Operating temperature [°C]
DSF 2210.00 AHV	374Z-03873	Connector	M22x1	130	-40...+125
DSF 2210.00 AHV Ex	374Z-03825	Connector	M22x1	130	certificate of conformity
DSF 2210.00 ATV	374Z-03888	Connector	M22x1	130	-25...+85
DSF 2210.00 MTV	374Z-03978	Protection hose 5 m	M22x1	870	-25...+85
DSF 2210.00 SHV	374Z-03874	Cable 2 m	M22x1	190	-40...+125
DSF 2210.00 SHV	374Z-03877	Cable 5 m	M22x1	280	-40...+125
DSF 2210.00 SHV Ex	374Z-03797	Cable 2 m	M22x1	190	certificate of conformity
DSF 2210.00 STV	374Z-03875	Cable 5 m	M22x1	250	-25...+85
DSF 2210.00 STV Ex	374Z-03796	Cable 5 m	M22x1	250	certificate of conformity
DSF 2210.87 STV	374Z-03853	Cable 5 m	M22x1	500	-25...+85 FTG 1087.00 S
DSF 2210.87 STV Ex	374Z-03826	Cable 5 m	M22x1	500	certificate of conformity FTG 1087.00 S Ex

Ferrostat Sensor with amplifier

Type DSF 2210
Version A, S, M

Technical Data

Supply	
Power supply	Supply voltage: 10...30 V D.C., (Ex 8...28 V D.C.), max. superimposed A.C. voltage of 25 mVpp, protected against reverse polarity. <u>Current consumption</u> : max. 14 mA (without load).
Input	
Frequency range	0.05 Hz...20 kHz
Noise immunity	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 Ω), 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).
Pole wheel	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. <u>Pole wheel-sensor gap with</u> Module 1: 0.2...1.0 mm Module 2: 0.2...2.5 mm \geq Module 4: 0.2...4.5 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.
Connection	
DSF	 
FTG 1087	 <p style="text-align: right;">Shield to be connected to 0 V of power supply.</p>
Mechanical	
Protection class	IP68 (head), IP67 (cable connection), IP50 (jack connection).
Vibration immunity	5 g_n in the range 5...2000 Hz.
Shock immunity	50 g_n during 20 ms, half sine wave.
Operating temperature	Acc. model overview.
Insulation	Housing, cable shield and electronics galvanically isolated (500 V/50 Hz/1 min).
Housing	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.
Weight	Acc. model overview.
Operating instruction	374E-63710 version with integral connector, 374E-63709 version with integral cable, 374E-63901 intrinsically safe version.
Versions	
Version A	<u>Connection type</u> : Part nr. 820A-35731; <u>Connection plug</u> : Part nr. 820A-35732.
Version ST	<u>PVC cable</u> : Part nr. 824L-35665, 3wire, 3 x 0.22 mm ² (AWG 24), wire stranded (thermoplastic screening with continuity conductor, insulated from the housing), grey, Outer \varnothing max. 4.2 mm, bending radius min. 60 mm, weight 25 g/m.
Version SH	<u>Teflon cable</u> : Part nr. 824L-35053, 4wire, 4 x 0.24 mm ² (AWG 24), wire stranded (metal net, insulated from the housing), white. Outer \varnothing max. 4.0 mm, bending radius min. 60 mm, weight 32 g/m.
Version MT	<u>Protection hose over PVC cable</u> : Tube 825G-30924 made of profile milled steel plate with PVC cover, grey. Weather and waterproof, conditionally oil and acid resistant. Outer \varnothing 14 mm, Bending radius min. 40 mm, weight 130 g/m.
FTG 1087	<u>PVC cable</u> : Part nr. 824L-31081, 3wire, 3 x 0.75 mm ² , 5 m long, wire stranded (metal net, insulated from the housing), grey. Outer \varnothing max. 7.4 mm, bending radius min. 110 mm, weight 80 g/m.

DSF
...V