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Overview of monitoring devices

Product finder							
Product	Function type	Description	Voltage		Without housing	Stand alone	Page
			VAC	V DC			
SP/SFE 30/5	pulse generator	standard version	0 - 30	0 - 30	-	•	60
SP/SFE 30/6 GL	pulse generator	GL approved	0 - 30	0 - 30	-	•	60
SP/SFE 30/3003	pulse generator	ATEX II2G and II2D	0 - 30	0 - 30	-	•	60
EWT2A	pulse monitor	for up to 3 pulse generators	115, 230	24	•	-	61
234-13161-5	digital pressure switch	pressure switch for extensive lubrication point monitoring	-	20-32	-	•	62
2340-0000108	analogue digital pressure switch	pressure switch for simple lubrication point monitoring	-	18–30	-	•	63



SP/SFE 30



Product description

SP/SFE30 pulse generators are designed to monitor oil and grease volumetric flow rates. The switching pulses are generated at a rate proportional to the volumetric flow, and the pulses from the pulse generator are evaluated by a downstream control unit. SP/SFE30/6GL pulse generators have been approved by German Lloyd for use on ships. Explosion proofed versions (SP/SFE 30/3003 ATEX) for gas and dust are available as well.

Features and benefits

- For oil and grease up to NLGI 2
- Operating pressure of up to 600 bar (8 700 psi)
- Germanischer Lloyd-approved device available

Applications

- · For small lubricant flow measurements, in general
- Reciprocating compressors
- Oil and gas industry
- Marine

NOTE



For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

1-3009 EN, 1-3018 EN; 951-230-012 EN



Technical data

Function principle pulse generator based on a progressive metering principle Operating temperature

–15 to +70 °C; +5 to 158 °F Operating pressure 4 to 600 bar;

58 to 8 700 psi oil min. viscosity 12 mm²/s Lubricant

grease up to NLGI 2

Volumetric flow range 0,1–50 cm³/min; 0.0061–3.0512 in³/min Volume/pulse 1) 0,34 cm³; 0.021 in³ Contact type reed contact SP/SFE 30/5: plug DIN 43650 Connection

SP/SFE 30/6 GL: cable 2 m, 6.56 ft 0 to 30 V AC/V DC Switching voltage 10 W with VAC/V DC Switching capacity

Standard CE, GL (Germanischer Lloyd) Protection class

65×170×35 mm; 2.56×6.69×1.37 in Dimensions

1) One pulse comprises the opening or closing of the reed contact. Volume/cycle = 0,68 cm³ when ulse monitoring unit is used (opening until reopening or closing to reclosing of a pulse monitoreed contact).

Order information

Order number Designation

24-2583-2516 SP/SFE 30/5 24-2583-2517 SP/SFE 30/3003 24-2583-2526 ATEX II2G ... and ATEX II2D ...

SP/SFE 30 accessories

Order number Description

straight connector $G^{1/4}$ for \emptyset 6 mm tube straight connector $G^{1/4}$ for \emptyset 8 mm tube 406-411 96-1108-0058



EWT2A





The EWT2A series of universal pulse monitoring devices can be used in all standard SKF lubrication systems. The pulse, generated from a progressive metering valve sensor, a pulse generator or a rotary gear sensor, must be received within a pre-selected and defined value. Depending on the selected version, a minimum and a maximum value can be monitored simultaneously for two or three pulse inputs. The EWT2A pulse monitoring devices are available in two voltage versions and may be installed in a switching cabinet. All devices have custom-built functions integrated and can be set to meet system requirements.

Features and benefits

- Easy installation by top hat rail mounting
- Adjustable operating modes
- Monitoring time 6-90 seconds
- Settings possible from 0,01 to 2 500 pulses/minute

Applications

• In connection with a pulse generator for oil and grease to reliably monitor lubricant flow

Order information			
Order number	Description		
EWT2A01-S1-E+471 EWT2A01-S1-E+472 EWT2A04-S1-E+471 EWT2A04-S1-E+472	for up to 3 pulse generators, 115/230 VAC for up to 3 pulse generators, 24 V DC for up to 2 pulse generators, 115/230 VAC for up to 2 pulse generators, 115/230 VAC		



Technical data

Function principle universal electronic control and monitoring device Operating temperature 0 to +60 °C +32 to 140 °F 24 V DC +10% /–15% 70 × 75 × 110 mm Output voltage **Dimensions** 2.7×3×4.3 in

Version + 471

100-120 VAC; 200-240 VAC Input voltage 70 mA/35 mA Input current rated 8 W Power input Frequency 50 - 60 Hz max. 6.3 A max. 5 A 24 V DC Switching current Output voltage sensors

Version + 472

Input voltage 20 to 24 V DC; 20 to 24 V AC 75 mA at max. fan-out of 250 mA Input current rated Power input DC or 50 – 60 Hz Frequency Fuse max. 6.3 A Switching current max. 5 A Output voltage sensors 24 V DC



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

1-1700-5 EN, 951-180-001 EN



234-13161-5



Description

This compact, maintenance-free electronic pressure switch has a 3-digit, digital display, one switching output and an analog output signal for switching point and hysteresis. Both can be adjusted via push buttons. For optimum adaptation to a particular application, the instrument has many additional adjustment parameters, e.g. switching delay times, NO and NC function of the outputs.

Features and benefits

- Integrated pressure sensor with thin-film strain gauge on stainless steel membrane
- 3-digit, digital display
- Independently adjustable switch-back hysteresis and switching point
- Reverse polarity protection of the supply voltage, excess voltage, override and short-circuit protection are provided
- Password protected
- Directly installable via G 1/4 adapter into pressure line

Applications

- Marine and off-shore applications
- Steel and heavy industries
- Wind turbines
- Service vehicles



Technical data

Order number

Function principle Lubricant Operating temperature Operating pressure Operating voltage Current consumption

Electrical connection

Pressure port Protection class **Dimensions**

Mounting position

234-13161-5

anv

digital pressure switch oil, fluid grease and grease up to NLGI 2 -25 to +80 °C; -13 to +175 °F max. 600 bar; *max*. 8 700 psi 20–32 V DC 1× PNP, 4-20 mA approx. 100 mA (without switching outlet) plug DIN 43650 (3pin+ PE) or plug 4-pin binder 714, M18×1 IP 65 35 × 119 × 48 mm 1.37 × 4.68 × 1.89 in



NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions available on SKF.com/lubrication.



2340-00000108



Description

This maintenance-free analogue pressure sensors is suitable for pressure measurements for gases and fluids. It is user friendly and can be applied easily in standard or superior applications. The space-saving housing is pivotable up to 320° for optimal readability of the 4-digit, digital display. Switching output for analogue or digital signals incl. IO-Link. It comes with reverse polarity protection of the supply voltage, excess voltage, override and short circuit protection. Different value units such as bar, mbar, psi or MPa can be selected.

Features and benefits

- 10-link incl. counter for operating hours, pressure peaks and inner temperature
- Menu-guided adjustments via push buttons
- Pre-adjustable hysteresis
- Programmable parameters, password protected
- Compact housing with 320° pivot

Applications

- Marine and off-shore applications
- Steel and heavy industries
- Wind turbines
- Service vehicles



Technical data

Order number

Function principle Lubricant Approval Operating temperature Operating pressure Overload pressure Burst pressure Operating voltage Operating current Current draw Output signal Analogue Output

Switching frequency Switching cycles Material: Housing Measuring cell Apapter Electrical connection Pressure port Protection class **Dimensions**

Interface

Mounting position

2340-00000108

analogue/digital pressure switch oil, fluid grease and grease up to NLGI 2 CE, EAC, UL/CSA –40 to +85 °C; –40 to +185 °F max. 600 bar; max. 8 700 psi 1 000 bar; 14 500 psi 1 570 bar; *22 770 psi* 18–30 VDC max. 150 mA ≤ 50 mA 2x PNP/NPN (NO/NC) adjustable voltage 0 .. 10 V/current 4 .. 20 mA adiustable 10-Link 1.1 170 Hz 100 Mio.

PA6.6, stainless steel 1.4301, FKM Ceramics Al203 stainless steel M12×1; 4-pole, A-coded G1/4

IP 67

95 × 34 × 49 mm 3.74 × 1.33 × 1.92 in



NOTE

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