

# Universal piston detector

For all types of metering devices in automatic lubrication systems

M12 sensor



Different adaptors for several metering device models (selection)



SSV / SSVD

VPB

VPK / PSG1

VP / PSG2

PSG3

The kit's intelligent M12 sensor detects every movement. It can handle up to 2 cm of piston movement in the metering device and learns the optimum switching distance during the first 10 strokes. The universal piston detector works with 2- and 3-wire techniques and PNP and NPN switching. It also functions well in extreme temperatures.

Featuring patented technology, this reliable sensor is suitable for wind energy, construction, mining, steel, pulp and paper, food and beverage, machine tool and general industries, as well as the mobile market and stationary wayside rail applications.

## Advantages:

- More accurate measurement than previous models
- Works with high-pressure systems
- Can change out sensor without making mess; it's always closed
- Short-circuit-proof, magnetic sensor cannot be damaged
- Suitable for use with most metering devices for grease and oil
- Customer can replace multiple types of sensors throughout system
- More efficient storage due to only one model

## Features:

- Suitable for extreme temperatures (-40 to +85 °C, -40 to +185 °F)
- CE, UL, CSA and E1 listed
- High IP class depending on the plug socket: IP 65 up to 69K
- LED function control
- Voltage: 10 to 36 V DC
- Works with SKF and Lincoln metering devices

## How to order

The new Universal Piston Detector can be ordered as standard kit including M12 sensor, adapter to all metering devices and an O-ring to be used for stainless-steel-to-stainless-steel contacts. A connecting socket is available separately (→ **table 1**).

The new kits replace all existing Lincoln piston detectors, and SKF piston detectors in applications with one-to-one wiring, see → **table 2** with replacing order numbers. These replacing kits include in addition to the standard kit cable as specified with the old order numbers.

All SKF piston detectors in applications with undetermined wiring (for instance with control unit IG502 and KFGS or KFAS pump units) will be replaced by a bipolar sensor soon.

**Table 1**

### Order number for new customers or orders

<b>234-13163-9</b>	Universal Piston Detector with M12 sensor, without adapter, O-ring and cables
<b>519-85224-1</b>	Universal Piston Detector standard kit including M12 sensor, adapter and O-ring Cables are not included
<b>237-13442-4</b>	Additional connecting socket

**Table 2**

### Order number comparison

Lubrication system	Metering device	Universal Piston Detector Kit <sup>1)</sup> order number	Replaced order numbers	
Progressive	VP	24-0159-6025 <sup>2)</sup>	177-300-094	
		24-0159-6021 <sup>2)3)</sup>	177-300-091	
	VPK	24-0159-6024 <sup>2)</sup>	177-300-095	
		24-0159-6022 <sup>2)3)</sup>	177-300-092	
	VPB	24-0159-6023 <sup>2)</sup>	177-300-097	
		24-0159-6028 <sup>2)3)</sup>	177-300-096	
	PSG1	24-0159-6024 <sup>2)</sup>	177-300-095	
	PSG2	24-0159-6025 <sup>2)</sup>	177-300-094	
	PSG3	24-0159-6026 <sup>2)</sup>	24-1884-2469 177-300-093	
	SSV / SSVD		664-85242-7	519-34271-2 234-13178-9
			519-85224-1	519-34339-5
			664-85242-2	234-13188-2
			664-85290-4	
			664-85242-4	234-13188-5
			664-85242-5	234-13188-3
			664-85242-6	234-13163-6
			664-85242-3	234-13178-2
			664-85282-2	664-34474-1
			664-85242-8	234-13178-5
			664-85242-9	234-13178-6
			664-85242-1	664-34283-1 664-34025-6 664-34025-1
			664-85282-1	664-34474-2
			664-85282-3	664-34025-4
			664-85290-2	234-13188-4
			664-85282-9	234-13178-8
			664-85290-3	234-13163-5
			664-85290-5	234-13188-7
			664-85282-7	234-13178-1
			664-85282-6	234-13178-3
			664-85282-8	234-13178-4 234-13188-6
			664-85282-5	234-13188-8
			664-85282-9	234-13188-1
	664-85282-4	664-34471-3		
664-85242-2	519-34339-3			
664-85290-1	519-34339-7			
664-85290-4	234-13188-5			
664-85282-7	519-34271-2			
664-85282-8	519-34271-4			
664-85242-3	519-34271-7			
Dual-line	VSKH	519-85224-1	VS*-MD	
	VSKV	519-85224-1		
	VSG	519-85224-1		
	VSL	519-85224-1		

[skf.com](http://skf.com) | [skf.com/lubrication](http://skf.com/lubrication)

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- 1 A kit includes M12 sensor, cables, adapter and O-ring.
- 2 Kit like 1), but without cable
- 3 Available for order from 2018-10-01