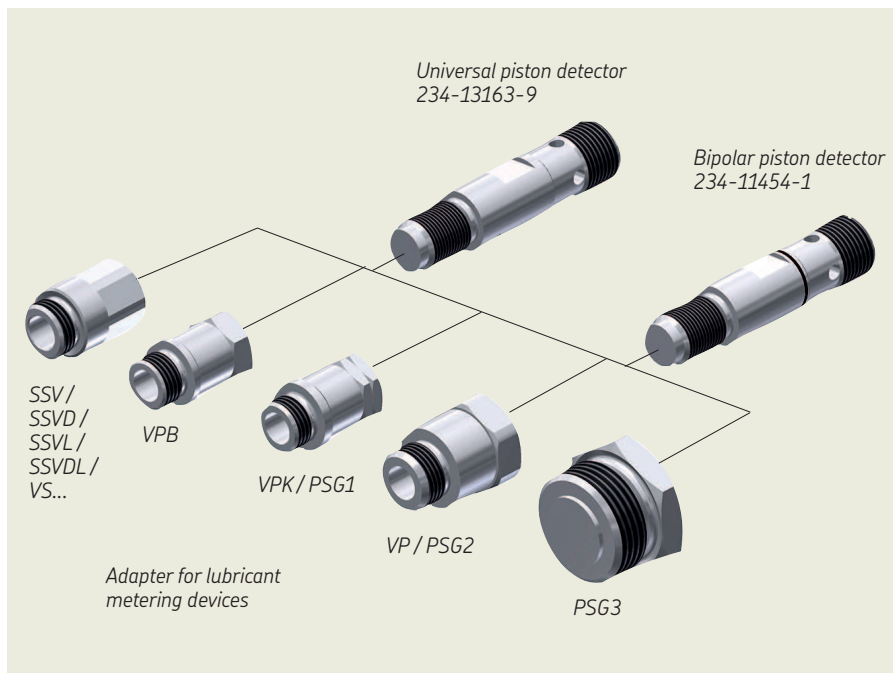


# SKF Lincoln piston detectors

For function monitoring of lubricant metering devices in automatic lubrication systems



## Advantages:

- More precise detection of the distributor piston than with previous piston detectors
- Can be used in lubrication systems with high operating pressures
- The adapter separates the lubricating medium from the sensor, thereby permitting replacement of the piston detector at the pressurised distributor as well
- Switching distance self-adjusting during operation
- Resistant to short-circuits and overloading
- Suitable for mounting on progressive metering devices
- The two new piston detectors replace all previous variants
- Efficient storage

The universal and bipolar piston detectors are position sensors that are screwed into the metering device together with the relevant pressure-resistant adapter. The sensors detect the piston by means of the closed adapter without coming into direct contact with it. They adjust themselves independently after several distribution strokes. Therefore, hydraulic pressure peaks do not act directly on the frontal sensor surface of the piston detectors.

Different adapters are available, depending on the distributor series.

The universal piston detector automatically detects the customer's plug or cable assignment, 2-wire or 3-wire version (with cable break protection).

The bipolar piston detector is only available in a 2-wire version. The signal voltage can be applied to either pin 1 or pin 4, which means this sensor can be used for mobile applications such as vehicles or agricultural and construction machinery.

Thanks to their patented technology, these innovative piston detectors are the ideal solution for wind turbines, mining, the steel industry, pulp and paper mills, the food and beverage industry, machine tools, mobile applications and stationary railway applications, as well as other industries.

## Properties:

- Suitable for extreme temperatures (−40 to +85 °C, −40 to +185 °F)
- CE, UL, CSA and E1
- High IP protection rating, depending on the cable socket used: IP 65 to IP 69K
- LED display for distributor stroke
- Supply voltage: 10 to 36 V DC

Table 1

## Piston detectors

Order number	Description
234-13163-9	Universal piston detector
234-11454-1	Bipolar piston detector
237-13442-4	Cable socket with M12x1 socket

Further electrical connections  
→ Brochure 1-1730

Table 2

## Kits with piston detector, O-ring and adapter for lubricant metering devices

Order number	Type Piston detector	for distributors
24-0159-6025	Universal	VP / PSG2
24-0159-6021	Bipolar	VP
24-0159-6024	Universal	VPK / PSG1
24-0159-6022	Bipolar	VPK
24-0159-6023	Universal	VPB
24-0159-6028	Bipolar	VPB
24-0159-6026	Universal	PSG3
519-85224-1	Universal	SSV / SSVL / SSVD / SSVDL / VS...

## Order details

The piston detectors can be ordered separately, i.e. without adapter, O-ring and cable. A cable socket with M12x1 socket is also available (→ Table 1).

The piston detectors can also be ordered as kits with the appropriate distributor adapter and O-ring (→ Table 2).

Furthermore, the universal piston detectors for metering devices of the SSV, SSVL, SSVD, SSVDL, VSKH, VSKV, VSG and VSL series are available as kits with O-ring, adapter and adapter cable in various connections and cable lengths (→ Table 3).

Table 3

## Kits with universal piston detector, O-ring, adapter cable and adapter for lubricant metering devices SSV / SSVL / SSVD / SSVDL / VS...

Order number	Adapter cable	Cable length
		[m]
664-85242-4	open cable end, 4-wire	10
664-85242-7	open cable end, 4-wire	5
664-85282-9	Wire end ferrule	10
664-85282-8	Wire end ferrule	5
664-85282-7	Wire end ferrule	3
664-85282-6	Wire end ferrule	2
664-85282-5	Wire end ferrule	0.6
664-85290-2	Wire end ferrule, marked, 2-wire	1.8
664-85290-1	Wire end ferrule and corrugated tube, 2-wire	3
664-85242-6	Bayonet connector, 4/2-pole	30
664-85290-4	Bayonet connector, 4/2-pole	10
664-85242-5	Bayonet connector, 4/2-pole	7
664-85242-2	Bayonet connector, 4/2-pole	3
664-85290-5	Bayonet connector, 4/2-pole	0.4
664-85242-9	AMP plug, 4/2-pole	12
664-85242-8	AMP plug, 4/2-pole	7
664-85242-3	AMP plug, 4/2-pole	3
664-85282-2	Deutsch plug 04-2P, 2-pole	5
664-85282-1	Deutsch plug 04-2P, 2-pole	3
664-85242-1	Deutsch plug 04-2P, 2-pole	0.3
664-85282-3	Deutsch plug 06-2S, 2-pole	5
664-85290-3	M12 plug, A-coded	5

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