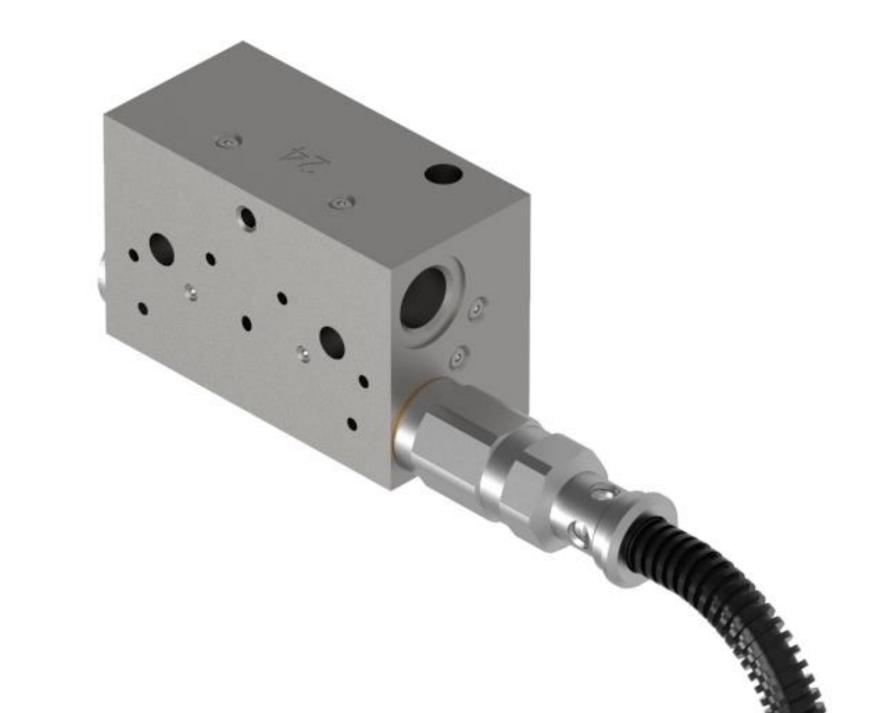
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# Instruction Manual



## Divider Monitoring Sensor

## EU Version









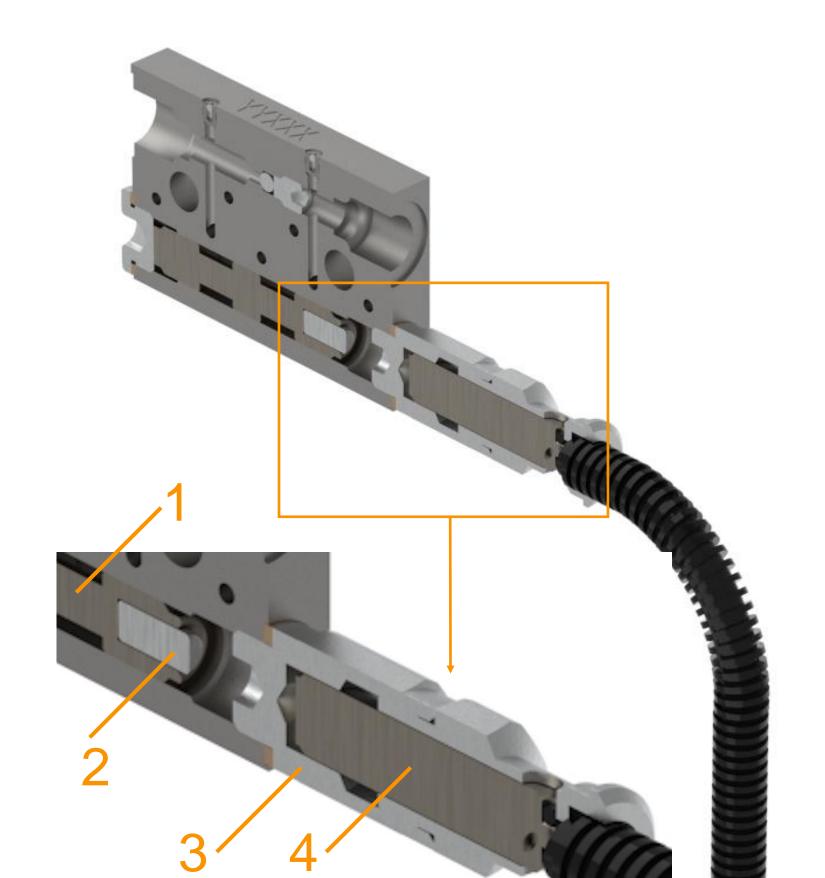
#### Centralized Lubrication System

## **Divider Monitoring Sensor**

The divider monitoring sensor is a magnetic sensor, which is designed for monitoring the operation status of the JPQ Series progressive divider.

The working principle is like a proximity switch by a pre-assembled magnet pin on the slot of the piston. During the running time of the divider, the sensor checks the moving status of the piston and send signal back to pump. As soon as the piston stops moving, the pump gets the warning signal.

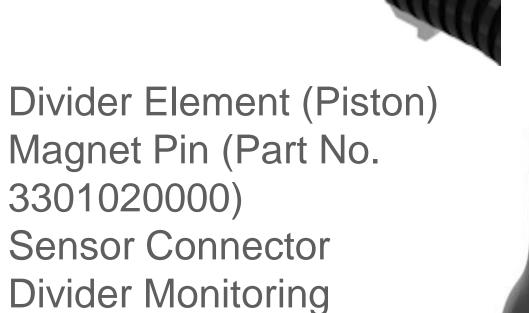
The sensor can send 2 different types of signal as below:



NPN (**Standard for AK06 controller**): Sensor signal is (+) positive. Normally open type contact can be used.

PNP (optional): sensor signal is (-) negative. Normally open type contact can be used.

**Attention**: Only ME 16/24/32 and EE 16/24 are available for a divider monitoring sensor.



Divider Monitoring Sensor with AMP 3 Pin Plug Socket

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#### Divider Element with Monitoring Sensor

Basic Features:		Electrical Data:	
Approval/Conformity	cULus, CE,	Assured Switching Field Strength HA	
Basic Standard	IEC 60947-5-2	Load Capacitance max. at Ue	1 μF
<b>Priciple of Operation</b>	Magnetic Field Sensor	No-load Current lo max., undamped	10 mA
		<b>Operating Voltage Ub</b>	10 30 V DC
Display:		Output Resistance Ra	Open drain
Function Indicator	Yes	<b>Rated Insulation Voltage Ui</b>	75 V DC
		<b>Rated Operating Current le</b>	200 mA
<b>Environmental Conditions:</b>		Rated Operating Voltage Ue DC	24 V
Ambient Temperature	-25 °C 85 °C	Rated short Circuit Current	100 A
<b>Contamination Scale</b>	3	Rated Switch Field Strength Hn	1.2 kA/m
EN 60068-2-27,Shock	Half-sinus, 30 g <sub>n</sub> , 11ms	Residual Current Ir max.	80 µA
EN 60068-2-6, Vibration	55 Hz, amplitude 1mm, 3x30 min	Ripple max. (% of Ue)	15%
ESD	4 A (8 KV)	Switching Frequency	10000 Hz
IP Rating	IP 67	Turn-off Delay toff max.	0.05 ms
		Turn-on Delay ton max.	0.05 ms
Material:		Utilization Category	DC - 13
Housing Material	Brass, Nickel-plated	Voltage Drop Static max.	3.1 V
Surface Protection	Nickel-plated		
		Mechanical Data:	
<b>Output/Interface:</b>		Connection	M8 x 1
Switching Output	PNP / NPN	Tightening Torque	3 Nm







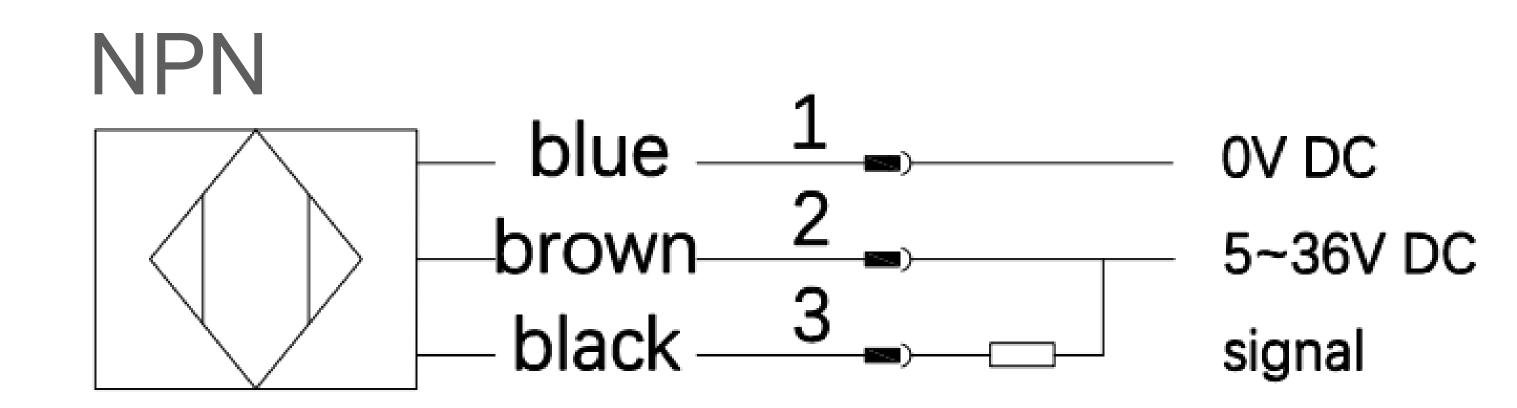


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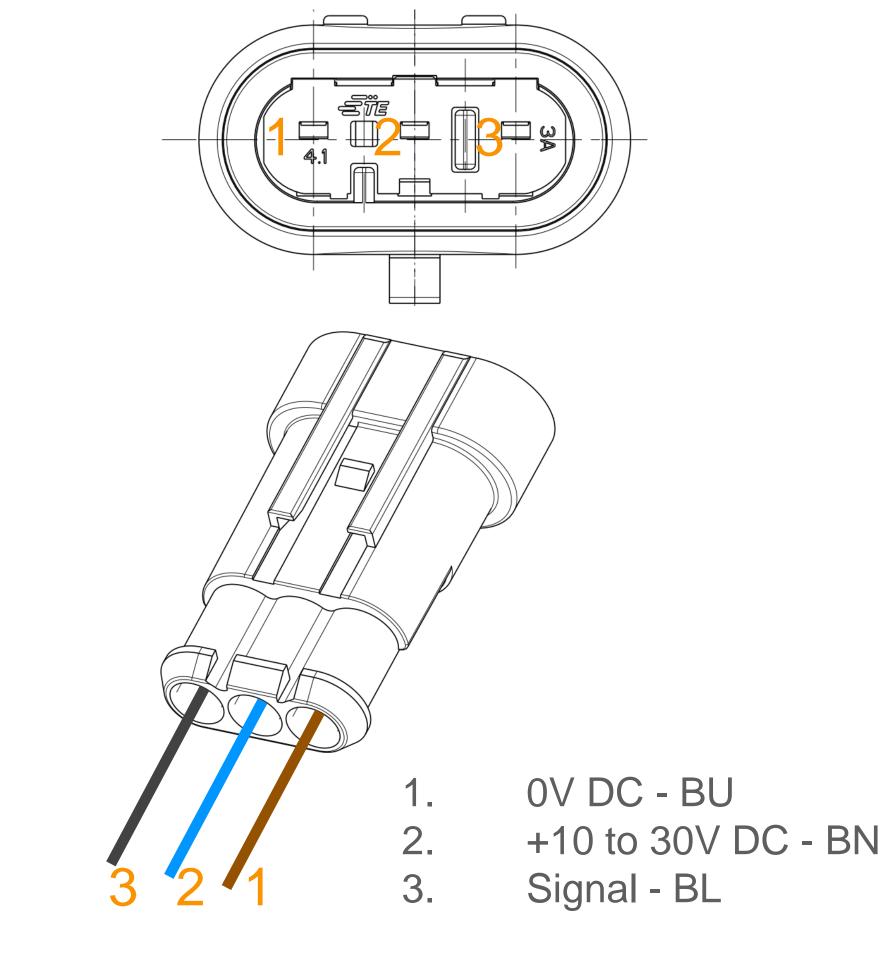
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## **Divider Monitoring Sensor**



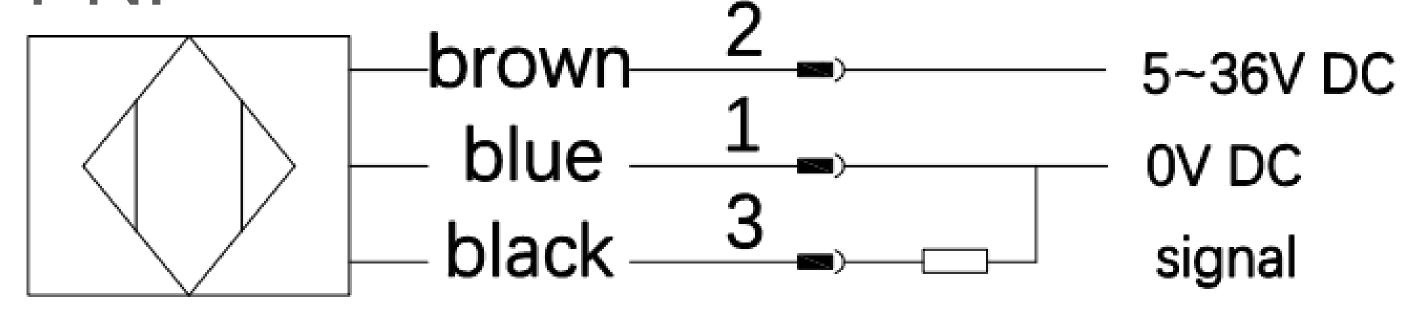




JPQ Series

Divider

Manual



Divider Monitoring Sensor Connector - AMP Plug Socket

Part No.	Description
Sensor Kit:	
2020420500	NPN Divider Monitoring Sensor Kit EU Ver. with Magnet Pin and Sensor Connector M10x1-M12x1 and AMP Plug Socket
2020420510	PNP Divider Monitoring Sensor Kit EU Ver. with Magnet Pin and Sensor Connector M10x1-M12x1 and AMP Plug Socket

#### **Sensor Spart Part:**

#### 3301020000 Magnet Pin

3501103160 Sensor Connector M10x1 - M12x1

#### **Sensor Connecting Cable:**

9901707	Divider Monitoring Cable 7.5m Univer	sal AMP Super Seal 3 Pin -	<b>Open Wirings</b>
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2110002734 Divider Monitoring Cable 7.5m AMP Super Seal 3 Pin - ALPB Hirschmann

Coming Soon Divider Monitoring Cable 7.5m AMP Super Seal 3 Pin - ALPB/ALP811 Binder

Coming Soon Divider Monitoring Cable 7.5m AMP Super Seal 3 Pin - ALPA Hischmann

\* Attention: For the Part No. of divider monitoring sensor kit, the sensor connector, and magnet pin are included. The connecting cable between sensor and pump, the divider element are NOT included.



Centralized Lubrication System