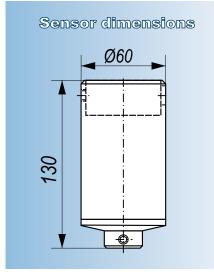
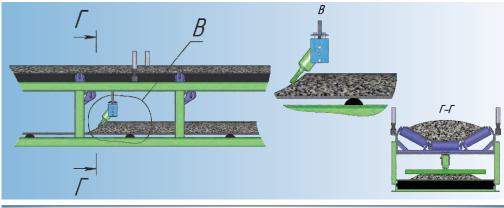




Sensor of belt longitudinal break checking of ДКПР-...-series

Sensors of ДКПР-...-series - are designed for conveyor belt longitudinal break checking on conveyors with straight and V-shaped return run that transfer loose materials. The product is based on sensor of the critical angle of inclination (patents of ΦИПС №109551 and №110473 of 20.10.2011), which does not contain mercury as distinct from their foreign counterparts.





5-wire

Denomination - sensors of ДКПР-...-series

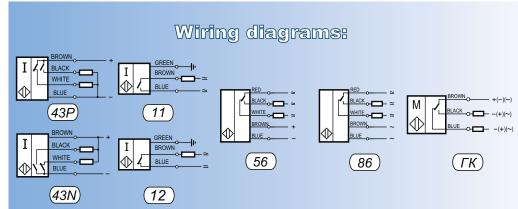
5-wire

	4-WII e	2-11116	3-WILE	3-WILE	3-WIIE
· ·	DC voltage	AC/DC voltage	DC voltage	AC voltage	hermetically sealed sensor
Specifications:	sensors	sensors + ground	sensors with relay	sensors with relay	
		wire	output	output	
	43P	11	56	86	ГК
	43N	12			
Angle of actuation, degree		_	30		
Voltage supply, V	1030 DC	20250AC/ 20320DC	24 DC	220 AC	
Switching voltage of load, V		- 	240 AC / 60 DC	240 AC / 60 DC	0,05 - 200 DC/ 0,05 - 250 AC
Max. switching current, Imax мА	250	500	500	500	1000
Residual current, I мA	-	≤1,7	-	-	_
Surge current when t=20ms	-	3 A, f=1 Hz	-	-	-
Voltage drop when Imax, V	≤2,5	≤5	-	-	-
Operating temperature range,°C					
• high-temperature - BT	t= -15°+105°C		t= -15°+85°C		t= -15°+105°C
typical execution			t= -25°+75°C	:	
• low-temperature - HT			t= -45°+65°C	;	
low-temperature - 2HT	t= -60°+50°C		-	-	t= -60°+50°C
Protection degree			IP67		
Cable connection, L=2m	4x0,25 mm ²	3x0,34 mm ²	5x0,25 мм²	5х0,25 мм ²	3x0,34 mm ²
when ordering other lengths, indicate the	n <u>umber of meters i</u>	n the end of the den	omination (see exa	ample of notation)	
Dimensions, mm	60x130 without extension cable, Ø60x180 with extension cable				

4-wire



Weight, kg



1,5

CONVEYOR AUTOMATION



Sensors of

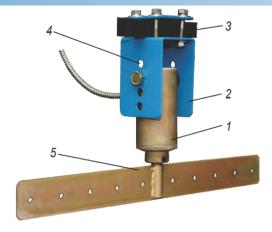
ΔΚΠΓ-...-series are available for manufacturing in several versions that differ from each other in wiring diagram, supply voltage, operating temperature ranges.

Example of sensor notation in the documentation and orders:

ДКПР- 43P - HT - 3 Number and sensor contacts type: — 11, 12 - 2-wire sensors with normally open (NO) and normally closed (NC) contact respectively; 43P, 43N - 4-wire sensors with switching contact (NO/NC) with the PNP and NPN types of transistor switch respectively; 56, 86 - 5-wire sensors with relay DC and AC voltage output respectively Operating temperature range: -HT - $-45^{\circ}...+65^{\circ}C;$ -65°...+50°C; -15°...+105°C, (-15°...+85°C - for 5-wire sensors); 2HT-BT no marking - -25°...+75°C

3 - length in metres, no marking - cable length 2 m

Operating principle



Cable length: -

ДКПР Sensor (1) is set over the return run close to the drive drum of the conveyor and attached by the bracket 2 to the conveyer flight 3. The bracket has holes 4 for adjusting the height of the sensor. At the bottom of the sensor, extension cable with a crossbar 5 are attached. Operating position of the sensor is vertical.

In case of belt longitudinal break transported material is discharged into the appeared hole from the loaded run to the rerutn one, which carries it toward the drive drum. Upon reaching the sensor, material impacts on the crossbar and deflects the sensor. More than 30° sensor inclination from the vertical causes a change in its logic signal.

When having the sensor on the conveyor with V-shaped contour of the return run it is necessary to use an extension with matched bar contour from supply set.

Sensors of AKIP-...-series supply set

