Sensors of emergency conveyor shut-down - ДЭК-М...

Sensors of emergency conveyor shut-down ДЭК-М... are designed for using in control and automation systems of belt and fligth conveyors .They provide emergency abort of a run and shut-down of a conveyor drive from any place of a conveyor transport production lines. A sensor can be used for control unauthorized openings of enclosures, protecting housing of danger areas and mechanisms.

The sensors ДЭК-М-02 и ДЭК-М-03 "passive", have a «dry contact» and require no power. The sensors ДЭК-М-58 and ДЭК-М-88 have two groups of output switching relay contacts each, they require supply with voltage of 24V DC and 220V AC respectively.

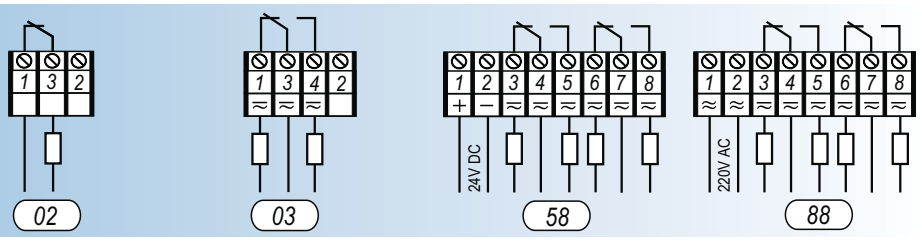
The sensors provide:

- local control by a handle on the front panel;
- remote control by a pull rope;
- fixation of the off position after actuation;
- mechanical interlocking of the control handle in the off position by a carabiner;
- determining an address of sensor that snapped into action (this option is available if connecting to device УКК «Адрес»RS-4485).

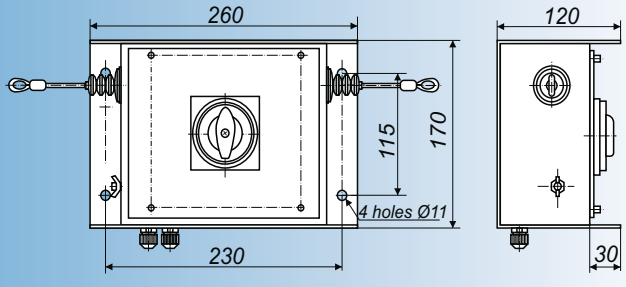
Specifications:

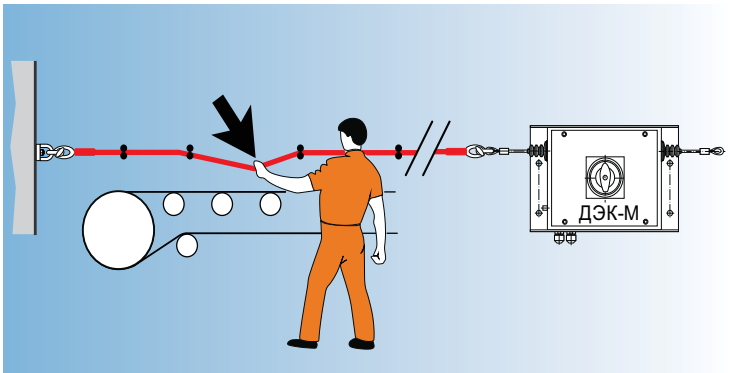
Denomination - sensors of ДЭК-М-...series	2-wire sensors requiring no power	3-wire sensors requiring no power	Sensors with relay output with DC supply voltage	Sensors with relay output with AC supply voltage
	... 02	... 03	... 58	... 88
Rope stroke, mm	30			
Supply voltage, V	-	-	24 DC	220 AC
Switching voltage, V	6...250 AC/DC	0,05...220AC/0,05...200DC	240 AC / 60 DC	
Max. switching current, Imax A	5	1	5	5
Number and type of contacts	1, NC	1, C/O	2, C/O	2, C/O
Operating temperature range,°C				
• typical execution	t= -25°...+75°C			
• low-temperature - **HT**	t= -45°...+65°C			
• low-temperature - **2HT**	t= -60°...+50°C		-	
• high-temperature - **BT**	t= -15°...+105°C		t= -15°...+85°C	
Protection degree	Ip54			
Wiring	Terminal block			
Dimensions	260 x 170 x 120			
Weigth, kg	3,5			

Wiring diagrams:



Sensor dimensions





CONVEYOR AUTOMATION

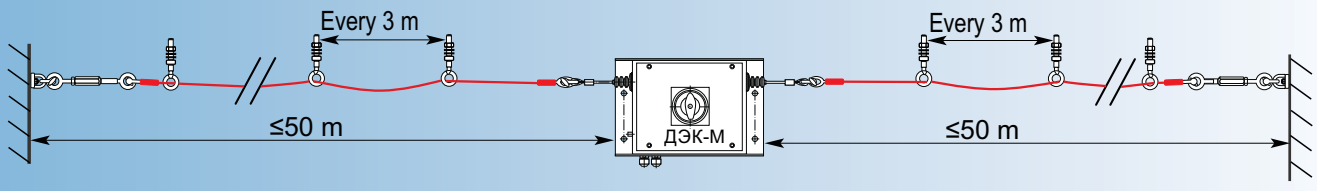
Sensors of ДЭК-М... - series are available for manufacturing in several versions that differ from each other in wiring diagram and operating temperature ranges.

Example of sensor notation in the documentation and orders: **ДЭК-М-02-НТ**

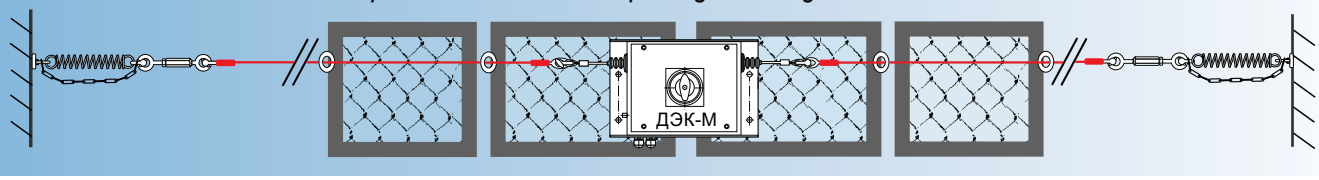
Wiring diagram:
02 - 2-wire sensors with normally closed «dry» contact;
03 - 3-wire sensors with transfer «dry» contact;
58, 88 - sensors with transfer groups of relay contacts , with DC (58) and AC (88) supply voltage.
Operating temperature ranges: НТ - -45°...+65°С;
2НТ- -60°...+50°С (for diagrams 02, 03 only); no marking - -25°...+75°С;
ВТ- -15°...+105°(for diagrams 02,03) -15°...+85°(for diagrams 58, 88) .

Sensors of ДЭК-М-... series installation versions :

1th version - provides an emergency conveyor shut-down from any place of a production line



2th version - provides a control of openings of danger areas enclosures

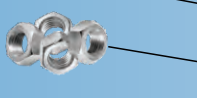


Sensors of ДЭК-М...-series supply set

Sensor ДЭК-М... - 1 pc.

Fasteners included:

washer M10 - 4 pc.,



spring washer M10 - 4 pc., bolt M10x80 - 4 pc.,

hex nut M10 - 4 pc.

lath - 2 pc.,

thimble 4mm - 2 pc.

rigging cramp M6 - 2pc.

double clamp of rope, 4mm - 2pc.

hex-nut wrench 6mm - 1pc.

Optional equipment for sensors of ДЭК-М...-series

ROPE STEEL, TRACTIVE, IN SET - ТС3-...

Diameter 3 мм, in red PVC coat.
Included:
1) rope, lengnt - as required;
2) thimble 4mm - 2 pc;
3) turnbuckle 6mm, «eye and eye» - 1 pc;
4) rope clamp 4mm, double - 1 pc;
5) cramp rigging M6 - 1 pc;
6) eye bolt M8 - 1 pc.

ROPE STEEL
Diameter 3 mm,
in red PVC coat.
Length in reel - 100 or 200m.

LOOP GUIDING M8X100
Included:
1) Loop - 1pc;
2) Hex nut M8 - 2pc;
3) Spring washer M8 - 2pc;
4) Washer M8 - 2pc.

EYE BOLT M8
Included:
1) Eye bolt - 1pc; 2) Washer M8 - 1pc;
3) Spring washer M8 - 1pc; 4) Hex nut M8 - 1pc.

REED SWITCH ВГ-ДЭК
to be used as a switching element of sensors of ДЭК-М-series. It is supplied as part of a ЗИП item on the basis of 1 pc. per 10 sensors, or by itself according to an order of a customer.

PROTECTOR PU
Protector polyurethane - is reccommended for installation on control handle of sensors ДЭК-М wich are used in the corrosive medium conditions

CRAMP RIGGING M6

THIMBLE 4MM

CLAMP OF ROPE DOUBLE 4MM

TURNBUCKLE M6 «EYE AND EYE»

TENSION SPRING with a restrictive chain

Example of equipment notation in the documentation and orders:

Rope steel, tractive, in set ТС3-30
Diameter of rope, mm
Required length, m

Reed switch ВГ-ДЭК-НТ
Operating temperature ranges:
НТ - -45°...+65°С; 2НТ- -60°...+50°С;
no marking - -25°...+75°С.

«Pilot Production «Technologies of Control» Co. Ltd

630117, Novosibirsk, Arbuzova street, 2a
Phone: (383) 332-49-32, 299-32-02, 335-64-09
sale@op-teko.ru www.op-teko.ru