Lever limit switch
OS
Installation- operation- and maintenance manual

DITTELBACH UND KERZLER

Safety directions
All installation- and service works at electrical switches are only allowed under isolated conditions. The personal for these works must be instructed about the mode of operation and the relevant function for safety of these switches.

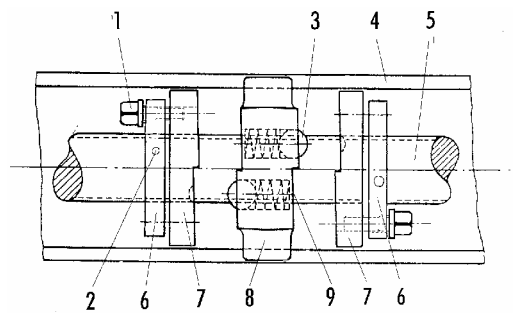
Mode of operation
This switch is switching over in case that one of the two adjustable stop nuts is reached by the travelling nut on the rotated driving spindle. After switching over there are 11 rotations (OS1, OS2, OS3 and OS4 20 rotations) overrun for slow down of the motif. Reset of the contacts happens automatically upon leaving the slow down path back to the working range (except version –W-, reset only manually by actuating the blue release levers).

Mechanical installation
For mounting the actuation lever first release the switch works by pushing down the blue release levers (only version –W-). The switch should be arranged in upright position. The switch shaft can be driven by coupling, gear- or chainwheel. For mounting a wheel onto the shaft only use the centering thread. !!! Never drive on the wheel by using a hammer !!!

Before coupling the switch with the driving element move your equipment (i.e. crane, hoist, door) into approx. middle position. Open switches top lid and make shure that the travelling nut is also approx. in the middle position. Couple the switch with the driving element.

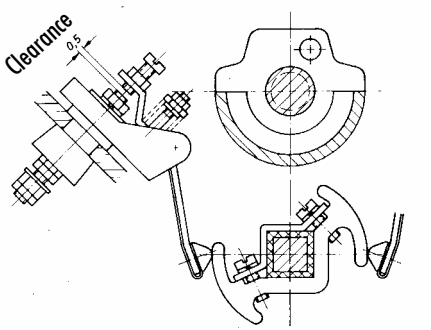
Move your equipment slowly into one limit position. Loosen the lock nut (6) either by loosing the clamping screw (1) (OS1, OS2, OS3, OS4 or by using the pin holes (2) (OS0). Turn the stop nut (7) towards the travelling nut (8) until coupling engages. Re-tighten the lock nut. Continue to move the equipment in the original direction, the contacts switch over after the spindle has completed half a revolution.

Adjusting of the reverse witching point in same sense.



Electrical installation
The two terminal box lids must be screwed off. One box is for clamping the incoming cable(s), the other for the outgoing. A terminal diagram is printed inside of the lid. The cable glands should be tightened and checked for waterproof. No guarantee for unsealed switches! Earth the housing. Close the terminal boxes.
Screw off the housing cover. Fill into the switch transformer (isolating) oil according to the standards VDE 0370, DIN 57370 or IEC 296. Screw on the housing cover.
All functions of this switch must be checked according to the asset side safety and service regulations before setting into service.

Maintenance
All maintenance works at this switch are only allowed under isolated conditions. The switch should be inspected in intervalls, longest yearly intervalls
The isolating oil should be changed every year.
The contact studs are subject to natural wear as a result of burning and must be adjusted according to switching frequency. The clearance between adjusting screw and connection stud should be approx. 0,5mm. If burning is excessive the contacts should be replaced.



Oil filling
The switch should be filled with isolating oil acc. VDE 0370 for getting the whole switching capacity and long year reliability.

OH0	1 litre
OH1	2 litre
OH2	3 litre
OH3	5 litre
OH4	7 litre

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