

# Pullcord Switch SNS2

## Installation and operation manual

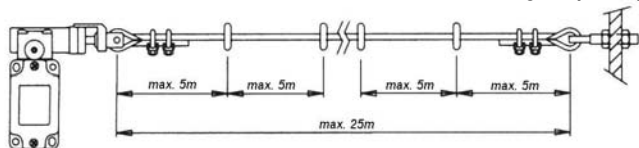


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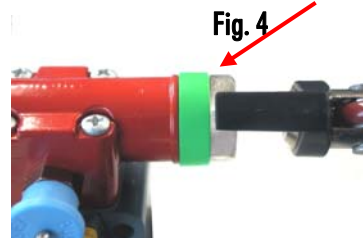
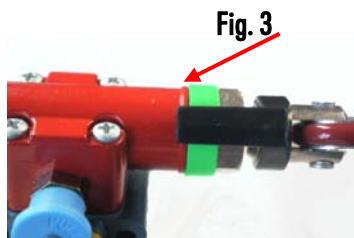
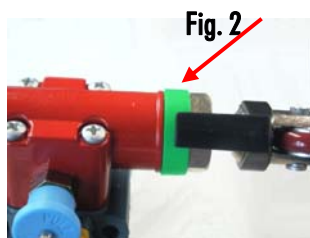
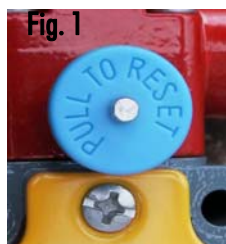
**General:** !!! Before any work shall be carried out it has to be checked that the whole line is circuit-free and any specific and general security instruction has been fulfilled. !!!

Pull rope switches of this type are provided to be installed on the end of 1 pull rope. Length of the rope should not exceed 25 m. The switch will be actuated by manual rope pulling. The switch latches itself automatically if actuated. Release of latching only manual by pulling the blue knob.

**Mounting:** The switch should be fastened in straight line with the pullcord to be hanged into the rope-eyelet. The pullrope should be guided and supported in distances not longer than 5m. Due to minimizing the friction between supporting and pullcord all supportings should be in a straight line without any greater deviations. The switch should be fastened with 4 suitable M5-screws in any position on a fix and plane console. Supporting of the pullcord by rope loops, such as our type SH... out of our accessory program. One end of the pull rope should be hanged into the rope-eyelet direct on the switch, the other end should be fastened at a fixed point, e.g. a rope loop. For easiest adjustment of the rope length the installation of a turnbuckle is recommendable. For deflecting the pull rope pulleys with a forced rope guiding can be used.



After fixing the switch and mounting and supporting the pullcord, the pullcord should be pre-tensioned (shortened) so far, that the top of the black hand of the switch is above the middle of the green field (Fig. 2). Now the contacts can be released by pulling the blue reset knob (Fig. 1). Afterwards check function: After manual pulling of the rope, the reset knob must be fallen into latching position. For release pull this knob. In case of a fracture or slacking within the pullcord the contacts switch over automatically. In this case the black hand is like in Fig. 3. If the pullcord is too short, the hand shows like in Fig. 4. In both positions a release is not possible.



### Technical data

According to standards	EN 60 947 / EN 292 / UVV-VBG10/ DIN EN 418
Approval numbers	IMQ: EG605 UL: E131787
Contacts	SNS21: 1 NC (direct opening) + 1NO SNS22: 2 NC (direct opening)
Ith	10A
Utilization categorie	AC15: 230V 6A, 400V 4A DC13: 24V 6A, 120V 1A, 250V 0.4A
Cross section	max. 2,5mm <sup>2</sup>
Way for actuation	approx. 4 mm
Length of pullcord	max. 25m
Head of switch	SNS21 , SNS22 to the right SNS21L , SNS22L to the right
Cable inlet	1 x M20
Protection	IP 67
Housing	metal, epoxy powder coated
Weight	0,4 kg
Fastening	4 holes for M5-screws
Mounting position	free
Ambient temperature	-25°C up to +80°C
mech life	1 000 000 cycles

**Electrical installation:** Open the lid by loosening the 2 cross-slotted screws. Mount a suitable cable gland into the M20-threaded duct. Wire the contact blocks, maximum cross section is 2,5mm<sup>2</sup>, max torque for tightening the terminal screws is 0,8Nm. Contact's function is printed on them. After installation close the cover. Pay attention to well sealing by lid's gasket as well as by cable gland.

**Check:** Please check any electrical and mechanical function after completion of installation and afterwards in necessary intervals. The pullcord must be running smooth everytime, that there is no blockage. In the case of a fracture or slacking the switch must actuate itself. There is no need for any maintenance works for DUK pull cord switches. A 100% reliable emergency stop device is absolutely necessary before every start-up.

### Original EC-declaration of conformity:

According to 98/37/EG Annex II C as well as to 2006/42/EG (EC-Machinery-Directive)

As mandatory we hereby declare that the named electrical equipment conforms to the abovementioned directive.

Relevant EC-directives: 2006/42/EG, 2006/95/EG

Applied harmonized standards: EN 60947 EN 60204

EN 60529 DIN VDE 0168

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Eckart Maas (General Manager)

**DITTELBACH UND KERZLER** GmbH & Co. KG Talstrasse 27 D-35394 Giessen

Tel.: +49 641 97224-0 Fax: +49 641 97224-22 e-mail: info@DUK.eu