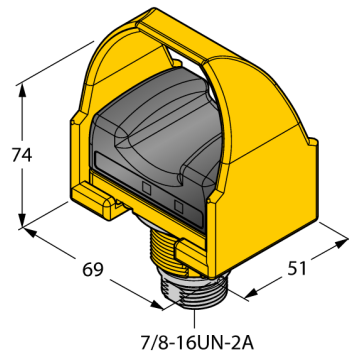


# Photoelectric Sensor Touch Switch For Two-Hand Control System STBVR81LQ



Type	STBVR81LQ
ID	3064194
<b>Optical data</b>	
Function	Touch Button
Light type	IR
<b>Electrical data</b>	
Operating voltage $U_o$	20...30 VDC
Operating voltage $U_a$	20...30VAC
Output function	Complementary contact, Relay output
Switching frequency	$\leq 25$ Hz
<b>Mechanical data</b>	
Design	Rectangular, STB
Housing material	Plastic, PBT
Electrical connection	Connector, 7/8"
Ambient temperature	0...+50 °C
Protection class	IP66
Power-on indication	LED, Green
Switching state	LED, Green
Error indication	LED, green, Flashing
<b>Tests/approvals</b>	

- 7/8" male , 5-pin
- Protection class IP66
- Ergonomically shaped
- Upper housing part of Lexan
- Operating voltage: 20...30 V AC/DC
- Relay output, 125 VDC / 150 VAC, 1A DC / AC 0.4 A max.
- Pre-assembled protective cover
- Safety category 4 according to EN ISO 13849-1 for use with corresponding evaluation relays
- SIL 3 acc. to IEC 61508 and IEC 62061

## Functional principle

The Duo-Touch two-hand control system can be used as a triggering device for most motor driven machines whose machining cycle is controlled by an operator. If a two-hand control system is used as a protective device, both of the operators hands must be used to start the machine cycle. The operator is thus placed in a form of "protective custody" if a hazard exists from which the operator must be protected or must avoid. The control elements of the two-hand control system must be arranged so that the hazardous motion (e.g. closing of a punching press) is completed or stopped before the operator can release one or both keys and reach the hazard area. Both hands must be used simultaneously. Both keys must be pressed within a time of max. 500 ms (simultaneity requirement according to EN 574).