



DETAIL PAGE FOR PART WITHOUT DESCRIPTIVE DRAWING

Part No: 3000 263-951 Rev. -

Updated by: Staffan Lundström

Updated date: 2009-11-19

Rev by:

Rev date:

Benämning / Name GRÄNSLÄGESBRYTARE LIMIT SWITCH
Swe Eng

Benämning / Name T4VH 336-11Z-M20-1861-4
(Typnr. / Type no.)

Data IP67, 230VAC, 4A,
(Data / Prestanda)

Norm / Standard -
(Data / Prestanda)

Fabrikat SCHMERSAL
Manufacturer

Ytbehandling -
Surface treatment

Vikt / Weight - Kg

Längd / Length - mm

Bredd / Width - mm

Höjd / Height - mm

Artikellklass / Article class Standard (Underhållen)

Utfärdad av / Issued by Staffan Lundström

Utfärdad datum / Issued date 2009-11-19

Jämför / Compare -

Notera / Note

Bryt/slut 2-kontakter, 13-14 & 21-22. Plast slow action med bryt. arm/rulle. M20
IEC, VDE, CSA, UL. Alimak "loggo" + UL tryckt på lock. Tvångsbrytande. Bryter/sluter 21-22
vid 90°, tvångsbryter vid 190°(max 800). Sluter/bryter 13-14 vid 210 grader
åt bägge hållen.

4. Position switches with safety function



Application Z/T range position switches series with safety function are suitable for sliding and hinged safety guards, which need to be closed to ensure the necessary operational safety. Further applications for position switches with safety function are the most varied positioning duties. The variety of requirements to be found in practice can be met in detail by means of a wide range of actuating elements.

Latching function at the end of travel The structure of the position switches with a latching function at the end of travel corresponds to those in the series. However, they don't have a return spring and must therefore be put back into the starting position manually after each operation. For this purpose, the plungers are either equipped with a transverse pin or enlarged. The latching function at the end of travel is only available with snap action switches. Whereas a magnetic snap action system is used with the ZS 231-01yr-1256, which enables the snap action function with practically no pre-travel.

Design and function On the position switches with safety function the guarding device and the positive break NC contact are positively linked.

Snap action For cases in which no differential travel is required between the opening of the NC contact and closing of the NO contact, i.e. if NC and NO contacts are to operate simultaneously (no intermediate position, either one or the other circuit must be closed). This function is particularly advantageous, when the speed of actuation is extremely slow.

Slow action The switching points are in exactly the same position during actuation and return switching of the position switch.

Protection class of all position switches is IP 67. The position switches can be fitted in any desired mounting position.



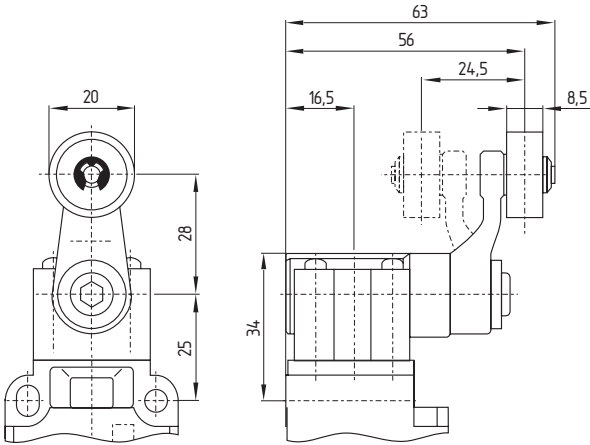
Notice Technical data are shown in tabular form in chapter 4.4.

4.

4.3

Position switches with safety function
T 336 Series

Swinging roller lever H



- Features
- actuator type A to DIN EN 50 041
 - required actuating torque
slow action: 31 Ncm
 - actuating speed with actuating
angle 30° to switch axis
max. 2.5 m/s

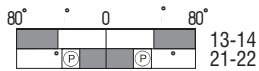
Note

On version TVH 336-01/01z positive break only to one side. The head must be fitted in required position in factory.

Contacts/ Switch travel	1 NO contact	
	1 NC contact	
2 NC contacts		
1 NC contact left		
	1 NC contact right	

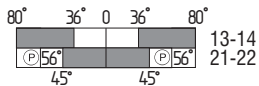
slow action

T4VH 336-11z



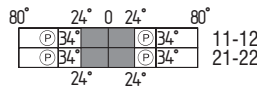
slow action,
overlapping
contacts

T4VH 336-11zÜ

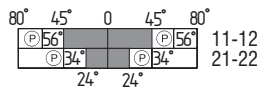


slow action,
staggered
contacts

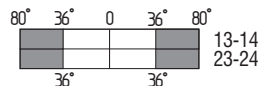
T4VH 336-02z



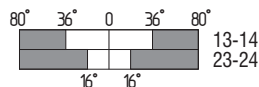
T4VH 336-02zh



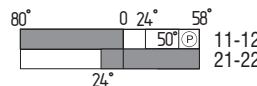
T4VH 336-20z



T4VH 336-20zh



TVH 336-01/01z



4. Position switches with safety function

4.4 Technical data

	T 336	T 336 with latching function at the end of travel
Standards:	IEC/EN 60947-5-1/DIN VDE 0660-200; BG-GS-ET-15; DIN EN 50041	
Enclosure:	fibreglass reinforced thermoplastic material, self-extinguishing	
Protection class:	IP 67	IP 65
	in accordance with IEC 60529/EN 60529 /DIN VDE 0470-1	
Contact material:	silver	
Switching elements:	changeover with double break Z_b , galvanically separated contact bridges	
Switching system:	⊖ IEC 60947-5-1; ⊕ BG-GS-ET-15; positive break NC contact	
	slow action	slow action
Termination:	screw terminal, wire cross section max. 2.5 mm ² (incl. conductor ferrules)	
Impulse withstand voltage U_{imp} :	6 kV	
Rated insulation voltage U_i :	500 VAC	
Thermal test current I_{th} :	10 A	
Utilisation category:	AC-15; DC-13	
Rated operating current/ voltage I_θ/U_θ :	4 A/230 VAC; 2.5 A/400 VAC; 1 A/500 VAC; 1 A/24 VDC	
Short circuit protection:	10 A (slow blow); 16 A (quick blow)	
Ambient temperature:	– 30 °C ... + 80 °C	
Mechanical life:	30 x 10 ⁶ switching cycles	
Switching frequency:	max. 5000/h	
Actuating speed:	min. 60 mm/min	
Contact opening width at full travel:	2 x 3.5 mm	
Duration to standstill:	in accordance with actuating speed	
Switching time:	in accordance with actuating speed	

