

Tramway block switch



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Tramway block switches are made for right and left branching and can be used as trailing or facing. They are constructed for use in the most demanding conditions of tramway tracks.

They guarantee a high degree of passage safety, quiet function, are ecologically harmless and feature a long lifetime with minimum demands for maintenance.

Securing:

- in cooperation with the facing or trailing direction setting system, an automated or manual resetting of the switch blades into the required direction and thus a safe tramway train passage in the straight or branching direction,
- the switch construction enables the use of modern, unified setting devices with the setting and checking rod.

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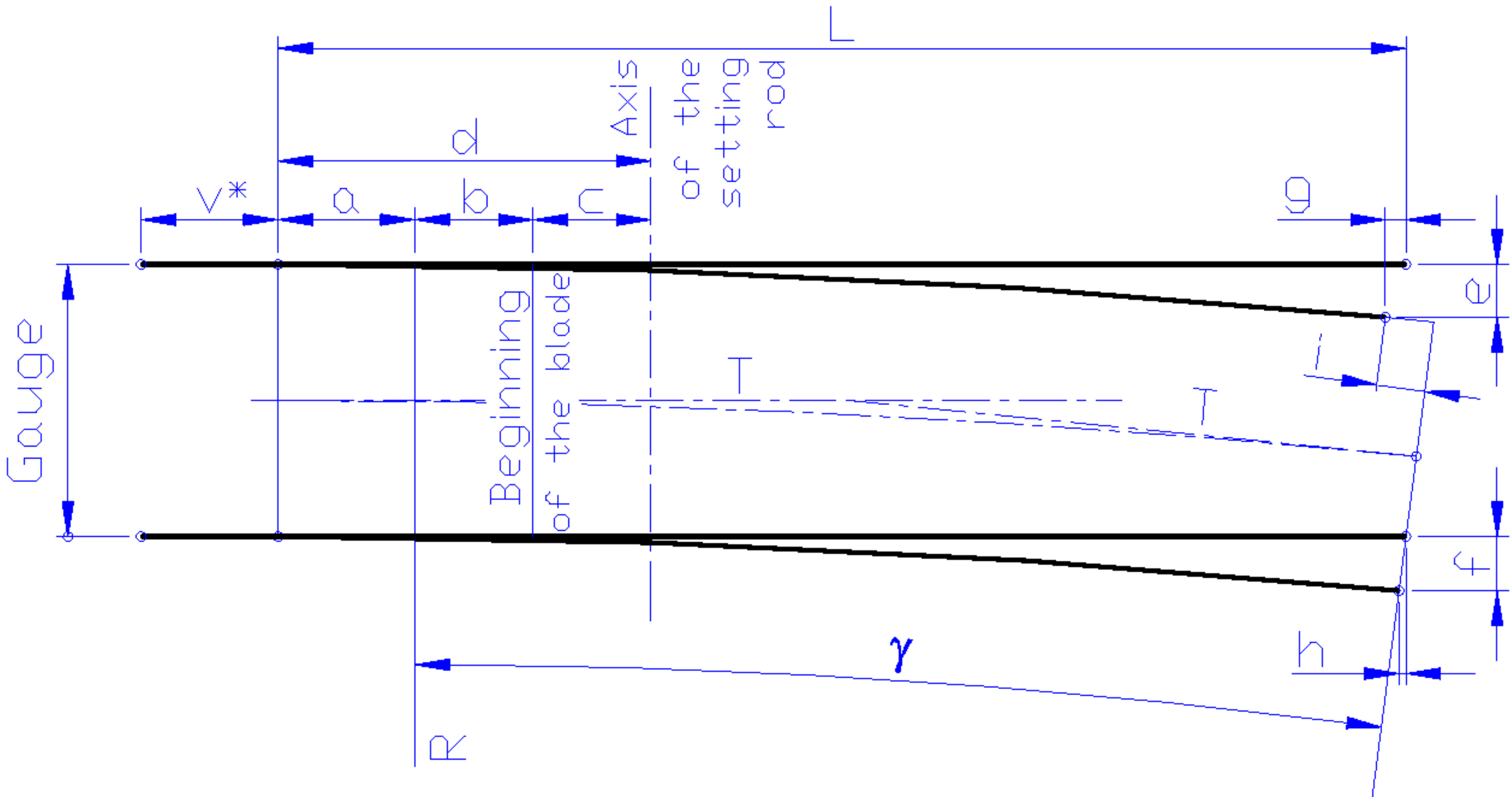
Description:

The switch is made for grooved rails required by the consumer (NT1, 60R2, 60R1, 59R2, 59R1 ...). Each switch consists of two half switches set into the track gauge by means of distance rods. The half switch is a weldment from block rail quality R260 (R260V, eventually other quality) with the full-head rails NT (73C1, eventually other rail profile), there is a recess on the weldment for the changeable blade drilled at the machining CNC centres and the corresponding courses of grooves. The block switch can be produced in the sandwich design, where their the top segment of the switch is made from abrasion-resistant material and the lower part from the steel normal quality. The changeable blades are made from rail material or from abrasion-resistant steel (e.g. 400 and others) and into the block switch are fastened with a self-locking wedge. This self-locking wedge is secured against accidental loosing with a screw joint. The block switch is either welded on the underlay steel plate thickness 16mm, with which the switch is then fixed to the sleepers or its installation height is the same as the height of the rail. Both half switches are heated by heaters that are screwed to the side of the block switch, are replaceable and are stored in a stainless steel protector for easy replacement.

Technical parameters:

- Track gauge: according to the customer's needs (1435, 1000, 1067, 1524mm ...).
- Rail profile: according to the customer's requirement (NT1, 60R2, 60R1, 59R2, 59R1 ...).
- Branching radius: standard R 20, 25, 30, 50, 100 a 150m and or another, depending on the customer's needs.

	R = 20 m				R = 25 m		R = 30 m		R = 50 m				R = 100 m		R = 150 m	
Rail	60R2, 60R1, 59R2, 59R1		NT1		60R2, 60R1, 59R2, 59R1		60R2, 60R1, 59R2, 59R1		60R2, 60R1, 59R2, 59R1		NT1, NT3		60R2, 60R1, 59R2, 59R1, NT1		60R2, 60R1, 59R2, 59R1, NT1	
Gauge	1000	1435	1000	1435	1000	1435	1000	1435	1000	1435	1000	1435	1000	1435	1000	1435
L	4500	4500	3400	3400	4500	4500	4000	4000	5000	5000	4660	4660	7000	7000	8500	8500
v *	500	500	0	0	500	500	500	500	350	350	0	0	200	200	0	0
γ	11° 45' 11"	11° 53' 08"	9° 45' 18"	9° 45' 18"	9° 21' 16"	9° 26' 18"	7° 46' 06"	7° 49' 36"	5° 47' 14"	5° 48' 48"	5° 16' 25"	5° 16' 25"	4° 01' 51"	4° 02' 23"	3° 15' 27"	3° 15' 44"
	13,0589 g	13,2062 g	10,8390 g	10,8390 g	10,3938 g	10,4869 g	8,6322 g	8,8963 g	6,4305 g	6,4589 g	5,8595 g	5,8595 g	4,4787 g	4,4885 g	3,6196 g	3,6249 g
a	500	500	130	130	500	500	0	0	0	0	130	130	0	0	0	0
b	0	0	280	280	0	0	400	400	650	650	280	280	800	800	1000	1000
c	500	500	310	310	500	500	400	400	350	350	310	310	400	400	400	400
d	1000	1000	720	720	1000	1000	800	800	1000	1000	720	720	1200	1200	1400	1400
e	389	385	259	259	313	311	262	260	247	247	203	203	243	243	240	240
f	409	413	279	279	326	329	271	273	253	253	209	209	246	246	242	242
g	25	25	7	7	16	16	11	11	8	8	3	3	6	6	4,5	4,5
h	28	29	3	3	18	18	12	12	9	9	0	0	6	6	4,5	4,5
i	205	298	244	244	163	236	166	196	101	145	132	132	70	101	57	82
T	2059	2082	1707	1707	2045	2064	2037	2052	2527	2539	2303	2303	3519	3527	4255	4272
v *	is only in case of using electric heating according VDV															



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