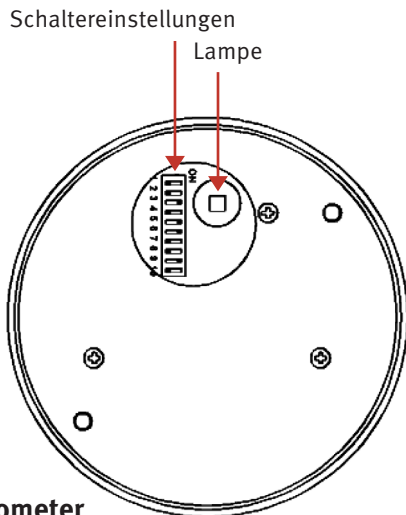




Limora Zentrallager

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Einbauanleitung Tachometer

Vorsicht: Dies ist ein Messgerät, das nur für negative Fahrzeuge geeignet ist!

Trennen Sie das Batteriekabel vor der Installation!

1. Allgemeine Informationen:

- Betriebsspannung: 11-7VDC (vehicles dynamics control)
- Das Gerät ist mit einer 12V-Lampe ausgestattet.
- Eingabesignal: Magnetsensor, Hall-Effekt-Geschwindigkeitswandler, Digitales Steuergerät
- entspricht 95/54/EG, ISO7637 & ISOTR 10605 für elektromagnetische Kompatibilität.

2. Kalibrierung:

Der programmierbare Tachometer wird kalibriert (programmiert), indem eine Kombination von zehn Schaltern auf der Rückseite des Instruments eingestellt wird. Um Zugang zu diesen Schaltern zu erhalten, entfernen Sie den Lochstopfen, indem Sie über der Mitte drücken, damit eine kleine Münze, ein Schraubendreher o.Ä. in den Schlitz hinter der Oberkante eingeführt werden kann. Der Kilometerzähler und der Tachometer sind elektronisch miteinander verbunden und werden beide kalibriert, wenn die Schalter richtig eingestellt sind. Stellen Sie die Schalter vor der Installation des Geräts ein. Hinweis: Die Schaltereinstellung muss mit der Stromversorgung „OFF“ erfolgen.

3. Kalibrierungsverfahren:

Berechnen Sie die „Kalibrierungsnummer“ aus der entsprechenden Formel unten. (die erhaltene Anzahl muss im Bereich von 2500 bis 135625 Impulsen/Einheitsabständen liegen). Siehe Tabelle „Kalibrierungs-Schalter-Einstellung“. Suchen Sie die Einstellung, die der Kalibrierungsnummer am nächsten liegt, und stellen Sie dann die mit „o“ gekennzeichneten Schalter auf die Position „OFF“ (unten).

- Beispiel: Kalibrierungsnummer=18142: Daher werden die Schalter 1,2,3,5,6,7,8,9 auf „AUS“ geschaltet (Schalterstellung 0001000001).

4. Kalibrierungsnummer:

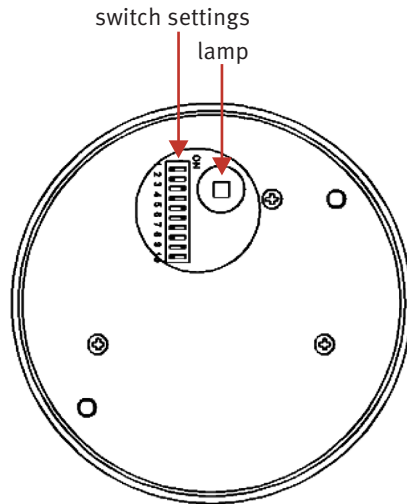
(Einheitsdistanz = Meilen oder Kilometer)

- Vorderrad montierte Schlitzscheibe/Tonrad (sichtbar durch Magnet-Sensor-Gewindebohrung) Kalibrierungsnummer Anzahl der Schlitzte in der Schlitzscheibe x (Reifenumdrehungen/Einheitenabstand)
- Propellerwellen-/ Heckwellen-Magnetsensor (4-polig): Kalibrierungsnummer = (Reifendrehzahl/Einheitenabstand) x Differenzverhältnis x 4
- Sender, der vom Getriebekabelantrieb angetrieben wird: Kalibrierungsnummer = (Kabelumdrehungen/Geräteabstand) x (Anzahl der Impulse/Senderumdrehungen)

5. Installation:

Wenn Sie das Messgerät in einer Instrumententafel montieren, schneiden Sie ein Loch in die Instrumententafel, das für die Rückseite des Messgeräts geeignet ist, mit einer ausreichenden Tiefe, um das Gerät und den Anschluss aufzunehmen. Verbinden Sie die Kabel wie unten beschrieben mit der Stromversorgung „AUS“ und dem Test, bevor Sie diese endgültig befestigen.

Grün	Anschluss an die Zündstromquelle (+ve)	Weiß/ Schwarz	Anschluss an ECU oder Hall-Effekt Drehzahlwandler (nicht beides)
Schwarz	Wird an die Erdung und das Sensorkabel angeschlossen. (-ve)	Rot/ Blau	Anschluss an den Eingang des Magnetsensors
Braun	An die Batterie anschließen. (+ve) wird bei Bedarf die Lampe eingeschaltet, wenn die Zündung ausgeschaltet ist.	Hellgrün/ Lila	Anschluss an 8V-Eingang am Halleffekt-Drehzahlwandler
Rot/ Weiß	Anschluss an die Stromversorgung der Armaturenlampe		
Rot	Anschluss an die Zündung (+ve), wenn ein Pull-up-Eingang erforderlich ist.		



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Installation instructions speedometer

Caution: Gauge to be fitted to negative earth vehicles only

Disconnect the battery cable prior to installation

1. General Information:

- Operating Voltage: 11-7VDC (vehicles dynamics control)
- Instrument is equipped with a 12v lamp.
- Input signal: Magnetic sensor, Hall effect speed transducer, Digital ECU
- complies with 95/54/EC, ISO7637 & ISOTR 10605 for Electromagnetic Compatability

2. Calibration:

The Programmable speedometer is calibrated (programmed) by setting a combination of ten switches found on the rear of the instrument. To gain access to these switches remove the hole plug by pressing above the center to allow a small coin, screwdriver, etc. to be inserted in the slot behind the upper edge. The odometer and speedometer are electronically linked together and are both calibrated when the switches are set correctly. Set the switches prior to installing the instrument. Note: The switch setting must be done with the power „OFF“.

3. Calibration procedure:

Calculate the „calibration number“ from the appropriate formula below. (the number obtained must be within the range of 2500 to 135625 pulses/unit distance). Refer to the „Calibration Switch Setting“ table with this number. Locate the setting which is nearest to the calibration number, then set the switches marked with „o“ to the „OFF“ position (down).

- Example: Calibration number=18142: therefore, switches 1,2,3,5,6,7,8,9 are switched „OFF“ (Switch settings 0001000001).

4. Calibration Number:

(Unit distance = miles or kilometres)

- Front wheel mounted slotted disc/ tone wheel (visible through) magnetic sensor threaded hole) Calibration number Number of slots in slotted disc x (tyre revs/unit distance)
- Propeller shaft/ tail shaft mounted magnetic sensor (4 pole): Calibration number = (Tyre revs/Unit distance) x differential ratio x 4
- sender driven from transmission cable drive: Calibration number = (Cable turns/lunit distance) x (number of pulse/sender turn)

5. Installation:

When mounting the gauge in an instrument panel, cut a hole in the instrument panel suitable to fit the rear of the gauge, with sufficient depth to accept the instrument and connector. Connect the wires as described below with the power „OFF“, and the test before finally fixing into place.

Green	Connect to Ignition power source (+ve)	White/ Black	Connect to ECU or Hall effect speed transducer (not both)
Black	Connect to ground and sensor wire (-ve)	Red/Blue	Connect to magnetic sensor input
Brown/ Slate	Connect to battery. (+ve) if required, Lod will be switched on when ignition is switched off	Light Green/ Purple	Connect to 8v input on hall effect speed transducer
Red	Connect to ignition (+ve) if pull up input required		
Red/White	Connect to dash lamp power		

6. Kalibrierungs- Schalter- Einstellung: Calibration Switch Setting:

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
2500	=	0000000000
2509	=	1000000000
2518	=	0100000000
2527	=	1100000000
2536	=	0010000000
2545	=	1010000000
2554	=	0110000000
2563	=	1110000000
2573	=	0001000000
2583	=	1001000000
2593	=	0101000000
2603	=	1101000000
2613	=	0011000000
2623	=	1011000000
2633	=	0111000000
2643	=	1111000000
2653	=	0000100000
2663	=	1000100000
2673	=	0100100000
2683	=	1100100000
2693	=	0010100000
2703	=	1010100000
2713	=	0110100000
2723	=	1110100000
2733	=	0001100000
2743	=	1001100000
2753	=	0101100000
2763	=	1101100000
2773	=	0011100000
2783	=	1011100000
2793	=	0111100000
2803	=	1111100000
2813	=	0000010000
2823	=	1000010000
2834	=	0100010000
2845	=	1100010000
2856	=	0010010000
2867	=	1010010000
2878	=	0110010000
2889	=	1110010000
2900	=	0001010000
2911	=	1001010000
2922	=	0101010000
2933	=	1101010000
2944	=	0011010000
2955	=	1011010000
2966	=	0111010000
2977	=	1111010000
2988	=	0000110000

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
2999	=	1000110000
3010	=	0100110000
3021	=	1100110000
3032	=	0010110000
3043	=	1010110000
3054	=	0110110000
3065	=	1110110000
3076	=	0001110000
3088	=	1001110000
3100	=	0101110000
3112	=	1101110000
3124	=	0011110000
3136	=	1011110000
3148	=	0111110000
3160	=	1111110000
3172	=	0000001000
3184	=	1000001000
3196	=	0100001000
3208	=	1100001000
3220	=	0010001000
3232	=	1010001000
3244	=	0110001000
3256	=	1110001000
3268	=	0001001000
3280	=	1001001000
3292	=	0101001000
3304	=	1101001000
3316	=	0011001000
3328	=	1011001000
3341	=	0111001000
3354	=	1111001000
3367	=	0000101000
3380	=	1000101000
3393	=	0100101000
3406	=	1100101000
3419	=	0010101000
3432	=	1010101000
3445	=	0110101000
3458	=	1110101000
3471	=	0001101000
3484	=	1001101000
3497	=	0101101000
3510	=	1101101000
3523	=	0011101000
3536	=	1011101000
3549	=	0111101000
3562	=	1111101000
3575	=	0000011000
3588	=	1000011000

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
3602	=	0100011000
3616	=	1100011000
3630	=	0010011000
3644	=	1010011000
3658	=	0110011000
3672	=	1110011000
3686	=	0001011000
3700	=	1001011000
3714	=	0101011000
3728	=	1101011000
3742	=	0011011000
3756	=	1011011000
3770	=	0111011000
3784	=	1111011000
3798	=	0000111000
3812	=	1000111000
3826	=	0100111000
3840	=	1100111000
3855	=	0010111000
3870	=	1010111000
3885	=	0110111000
3900	=	1110111000
3915	=	0001111000
3930	=	1001111000
3945	=	0101111000
3960	=	1101111000
3975	=	0011111000
3990	=	1011111000
4005	=	0111111000
4020	=	1111111000
4035	=	0000000100
4050	=	1000000100
4065	=	0100000100
4080	=	1100000100
4095	=	0010000100
4110	=	1010000100
4126	=	0110000100
4142	=	1110000100
4158	=	0001000100
4174	=	1001000100
4190	=	0101000100
4206	=	1101000100
4222	=	0011000100
4238	=	1011000100
4254	=	0111000100
4270	=	1111000100
4286	=	0000100100
4302	=	1000100100
4318	=	0100100100

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
4334	=	1100100100
4350	=	0010100100
4366	=	1010100100
4383	=	0110100100
4400	=	1110100100
4417	=	0001100100
4434	=	1001100100
4451	=	0101100100
4468	=	1101100100
4485	=	0011100100
4502	=	1011100100
4519	=	0111100100
4536	=	1111100100
4553	=	0000010100
4570	=	1000010100
4587	=	0100010100
4604	=	1100010100
4621	=	0010010100
4639	=	1010010100
4657	=	0110010100
4675	=	1110010100
4693	=	0001010100
4711	=	1001010100
4729	=	0101010100
4747	=	1101010100
4765	=	0011010100
4783	=	1011010100
4801	=	0111010100
4819	=	1111010100
4837	=	0000110100
4855	=	1000110100
4873	=	0100110100
4892	=	1100110100
4911	=	0010110100
4930	=	1010110100
4949	=	0110110100
4968	=	1110110100
4987	=	0001110100
5006	=	1001110100
5025	=	0101110100
5044	=	1101110100
5063	=	0011110100
5082	=	1011110100
5101	=	0111110100
5120	=	1111110100
5140	=	0000001100
5160	=	1000001100
5180	=	0100001100
5200	=	1100001100
5220	=	0010001100
5240	=	1010001100

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
5260	=	0110001100
5280	=	1110001100
5300	=	0001001100
5320	=	1001001100
5340	=	0101001100
5360	=	1101001100
5380	=	0011001100
5401	=	1011001100
5422	=	0111001100
5443	=	1111001100
5464	=	0000101100
5485	=	1000101100
5506	=	0100101100
5527	=	1100101100
5548	=	0010101100
5569	=	1010101100
5590	=	0110101100
5611	=	1110101100
5632	=	0001101100
5654	=	1001101100
5676	=	0101101100
5698	=	1101101100
5720	=	0011101100
5742	=	1011101100
5764	=	0111101100
5786	=	1111101100
5808	=	0000011100
5830	=	1000011100
5852	=	0100011100
5874	=	1100011100
5896	=	0010011100
5919	=	1010011100
5942	=	0110011100
5965	=	1110011100
5988	=	0001011100
6011	=	1001011100
6034	=	0101011100
6057	=	1101011100
6080	=	0011011100
6103	=	1011011100
6126	=	0111011100
6149	=	1111011100
6173	=	0000111100
6197	=	1000111100
6221	=	0100111100
6245	=	1100111100
6269	=	0010111100
6293	=	1010111100
6317	=	0110111100
6341	=	1110111100
6365	=	0001111100

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
6389	=	1001111100
6413	=	0101111100
6438	=	1101111100
6463	=	0011111100
6488	=	1011111100
6513	=	0111111100
6538	=	1111111100
6563	=	0000000010
6588	=	1000000010
6613	=	0100000010
6638	=	1100000010
6663	=	0010000010
6689	=	1010000010
6715	=	0110000010
6741	=	1110000010
6767	=	0001000010
6793	=	1001000010
6819	=	0101000010
6845	=	1101000010
6871	=	0011000010
6897	=	1011000010
6923	=	0111000010
6950	=	1111000010
6977	=	0000100010
7004	=	1000100010
7031	=	0100100010
7058	=	1100100010
7085	=	0010100010
7112	=	1010100010
7139	=	0110100010
7166	=	1110100010
7193	=	0001100010
7221	=	1001100010
7249	=	0101100010
7277	=	1101100010
7305	=	0011100010
7333	=	1011100010
7361	=	0111100010
7389	=	1111100010
7417	=	0000010010
7445	=	1000010010
7474	=	0100010010
7503	=	1100010010
7532	=	0010010010
7561	=	1010010010
7590	=	0110010010
7619	=	1110010010
7648	=	0001010010
7677	=	1001010010
7706	=	0101010010
7736	=	1101010010

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
7766	=	0011010010
7796	=	1011010010
7826	=	0111010010
7856	=	1111010010
7886	=	0000110010
7916	=	1000110010
7946	=	0100110010
7977	=	1100110010
8008	=	0010110010
8039	=	1010110010
8070	=	0110110010
8101	=	1110110010
8132	=	0001110010
8163	=	1001110010
8194	=	0101110010
8226	=	1101110010
8258	=	0011110010
8290	=	1011110010
8322	=	0111110010
8354	=	1111110010
8386	=	0000001010
8418	=	1000001010
8450	=	0100001010
8483	=	1100001010
8516	=	0010001010
8549	=	1010001010
8582	=	0110001010
8615	=	1110001010
8648	=	0001001010
8681	=	1001001010
8714	=	0101001010
8748	=	1101001010
8782	=	0011001010
8816	=	1011001010
8850	=	0111001010
8884	=	1111001010
8918	=	0000101010
8952	=	1000101010
8986	=	0100101010
9021	=	1100101010
9056	=	0010101010
9091	=	1010101010
9126	=	0110101010
9161	=	1110101010
9196	=	0001101010
9231	=	1001101010
9267	=	0101101010
9303	=	1101101010
9339	=	0011101010
9375	=	1011101010
9411	=	0111101010

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
9447	=	1111101010
9483	=	0000011010
9520	=	1000011010
9557	=	0100011010
9594	=	1100011010
9631	=	0010011010
9668	=	1010011010
9705	=	0110011010
9742	=	1110011010
9780	=	0001011010
9818	=	1001011010
9856	=	0101011010
9894	=	1101011010
9932	=	0011011010
9970	=	1011011010
10008	=	0111011010
10047	=	1111011010
10086	=	0000111010
10125	=	1000111010
10164	=	0100111010
10203	=	1100111010
10242	=	0010111010
10282	=	1010111010
10322	=	0110111010
10362	=	1110111010
10402	=	0001111010
10442	=	1001111010
10482	=	0101111010
10522	=	1101111010
10563	=	0011111010
10604	=	1011111010
10645	=	0111111010
10686	=	1111111010
10727	=	0000000110
10768	=	1000000110
10810	=	0100000110
10852	=	1100000110
10894	=	0010000110
10936	=	1010000110
10978	=	0110000110
11020	=	1110000110
11063	=	0001000110
11106	=	1001000110
11149	=	0101000110
11192	=	1101000110
11235	=	0011000110
11278	=	1011000110
11322	=	0111000110
11366	=	1111000110
11410	=	0000100110
11454	=	1000100110

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
11498	=	0100100110
11542	=	1100100110
11587	=	0010100110
11632	=	1010100110
11677	=	0110100110
11722	=	1110100110
11767	=	0001100110
11812	=	1001100110
11858	=	0101100110
11904	=	1101100110
11950	=	0011100110
11996	=	1011100110
12042	=	0111100110
12089	=	1111100110
12136	=	0000010110
12183	=	1000010110
12230	=	0100010110
12277	=	1100010110
12324	=	0010010110
12372	=	1010010110
12420	=	0110010110
12468	=	1110010110
12516	=	0001010110
12564	=	1001010110
12613	=	0101010110
12662	=	1101010110
12711	=	0011010110
12760	=	1011010110
12809	=	0111010110
12859	=	1111010110
12909	=	0000110110
12959	=	1000110110
13009	=	0100110110
13059	=	1100110110
13110	=	0010110110
13161	=	1010110110
13212	=	0110110110
13263	=	1110110110
13314	=	0001110110
13366	=	1001110110
13418	=	0101110110
13470	=	1101110110
13522	=	0011110110
13574	=	1011110110
13627	=	0111110110
13680	=	1111110110
13733	=	0000001110
13786	=	1000001110
13839	=	0100001110
13893	=	1100001110
13947	=	0010001110

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
14001	=	1010001110
14055	=	0110001110
14109	=	1110001110
14164	=	0001001110
14219	=	1001001110
14274	=	0101001110
14329	=	1101001110
14384	=	0011001110
14440	=	1011001110
14496	=	0111001110
14552	=	1111001110
14608	=	0000101110
14665	=	1000101110
14722	=	0100101110
14779	=	1100101110
14836	=	0010101110
14893	=	1010101110
14951	=	0110101110
15009	=	1110101110
15067	=	0001101110
15125	=	1001101110
15184	=	0101101110
15243	=	1101101110
15302	=	0011101110
15361	=	1011101110
15421	=	0111101110
15481	=	1111101110
15541	=	0000011110
15601	=	1000011110
15661	=	0100011110
15722	=	1100011110
15783	=	0010011110
15844	=	1010011110
15905	=	0110011110
15967	=	1110011110
16029	=	0001011110
16091	=	1001011110
16153	=	0101011110
16216	=	1101011110
16279	=	0011011110
16342	=	1011011110
16405	=	0111011110
16469	=	1111011110
16533	=	0000111110
16597	=	1000111110
16661	=	0100111110
16726	=	1100111110
16791	=	0010111110
16856	=	1010111110
16921	=	0110111110
16987	=	1110111110

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
17053	=	0001111110
17119	=	1001111110
17185	=	0101111110
17252	=	1101111110
17319	=	0011111110
17386	=	1011111110
17453	=	0111111110
17521	=	1111111110
17589	=	0000000001
17657	=	1000000001
17725	=	0100000001
17794	=	1100000001
17863	=	0010000001
17932	=	1010000001
18002	=	0110000001
18072	=	1110000001
18142	=	0001000001
18212	=	1001000001
18283	=	0101000001
18354	=	1101000001
18425	=	0011000001
18496	=	1011000001
18568	=	0111000001
18640	=	1111000001
18712	=	0000100001
18785	=	1000100001
18858	=	0100100001
18931	=	1100100001
19004	=	0010100001
19078	=	1010100001
19152	=	0110100001
19226	=	1110100001
19301	=	0001100001
19376	=	1001100001
19451	=	0101100001
19526	=	1101100001
19602	=	0011100001
19678	=	1011100001
19754	=	0111100001
19831	=	1111100001
19908	=	0000010001
19985	=	1000010001
20063	=	0100010001
20141	=	1100010001
20219	=	0010010001
20297	=	1010010001
20376	=	0110010001
20455	=	1110010001
20534	=	0001010001
20614	=	1001010001
20694	=	0101010001

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
20774	=	1101010001
20855	=	0011010001
20936	=	1011010001
21017	=	0111010001
21099	=	1111010001
21181	=	0000110001
21263	=	1000110001
21346	=	0100110001
21429	=	1100110001
21512	=	0010110001
21596	=	1010110001
21680	=	0110110001
21764	=	1110110001
21849	=	0001110001
21934	=	1001110001
22019	=	0101110001
22105	=	1101110001
22191	=	0011110001
22277	=	1011110001
22364	=	0111110001
22451	=	1111110001
22538	=	0000001001
22626	=	1000001001
22714	=	0100001001
22802	=	1100001001
22891	=	0010001001
22980	=	1010001001
23069	=	0110001001
23159	=	1110001001
23249	=	0001001001
23339	=	1001001001
23430	=	0101001001
23521	=	1101001001
23612	=	0011001001
23704	=	1011001001
23796	=	0111001001
23888	=	1111001001
23981	=	0000101001
24074	=	1000101001
24168	=	0100101001
24262	=	1100101001
24356	=	0010101001
24451	=	1010101001
24546	=	0110101001
24641	=	1110101001
24737	=	0001101001
24833	=	1001101001
24930	=	0101101001
25027	=	1101101001
25124	=	0011101001
25222	=	1011101001

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
25320	=	0111101001
25418	=	1111101001
25517	=	0000011001
25616	=	1000011001
25716	=	0100011001
25816	=	1100011001
25916	=	0010011001
26017	=	1010011001
26118	=	0110011001
26220	=	1110011001
26322	=	0001011001
26424	=	1001011001
26527	=	0101011001
26630	=	1101011001
26734	=	0011011001
26838	=	1011011001
26942	=	0111011001
27047	=	1111011001
27152	=	0000111001
27258	=	1000111001
27364	=	0100111001
27470	=	1100111001
27577	=	0010111001
27684	=	1010111001
27792	=	0110111001
27900	=	1110111001
28008	=	0001111001
28117	=	1001111001
28226	=	0101111001
28336	=	1101111001
28446	=	0011111001
28557	=	1011111001
28668	=	0111111001
28779	=	1111111001
28891	=	0000000101
29003	=	1000000101
29116	=	0100000101
29229	=	1100000101
29343	=	0010000101
29457	=	1010000101
29572	=	0110000101
29687	=	1110000101
29802	=	0001000101
29918	=	1001000101
30034	=	0101000101
30151	=	1101000101
30268	=	0011000101
30386	=	1011000101
30504	=	0111000101
30623	=	1111000101
30742	=	0000100101

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
30862	=	1000100101
30982	=	0100100101
31103	=	1100100101
31224	=	0010100101
31345	=	1010100101
31467	=	0110100101
31589	=	1110100101
31712	=	0001100101
31835	=	1001100101
31959	=	0101100101
32088	=	1101100101
32218	=	0011100101
32348	=	1011100101
32479	=	0111100101
32611	=	1111100101
32743	=	0000010101
32876	=	1000010101
33009	=	0100010101
33143	=	1100010101
33277	=	0010010101
33412	=	1010010101
33547	=	0110010101
33683	=	1110010101
33819	=	0001010101
33956	=	1001010101
34094	=	0101010101
34232	=	1101010101
34371	=	0011010101
34510	=	1011010101
34650	=	0111010101
34790	=	1111010101
34931	=	0000110101
35072	=	1000110101
35214	=	0100110101
35357	=	1100110101
35500	=	0010110101
35644	=	1010110101
35788	=	0110110101
35933	=	1110110101
36079	=	0001110101
36225	=	1001110101
36372	=	0101110101
36519	=	1101110101
36667	=	0011110101
36816	=	1011110101
36965	=	0111110101
37115	=	1111110101
37265	=	0000001101
37416	=	1000001101
37568	=	0100001101
37720	=	1100001101

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
37873	=	0010001101
38026	=	1010001101
38180	=	0110001101
38335	=	1110001101
38490	=	0001001101
38646	=	1001001101
38803	=	0101001101
38960	=	1101001101
39118	=	0011001101
39277	=	1011001101
39436	=	0111001101
39596	=	1111001101
39756	=	0000101101
39917	=	1000101101
40079	=	0100101101
40241	=	1100101101
40404	=	0010101101
40568	=	1010101101
40732	=	0110101101
40897	=	1110101101
41063	=	0001101101
41229	=	1001101101
41396	=	0101101101
41564	=	1101101101
41732	=	0011101101
41901	=	1011101101
42071	=	0111101101
42242	=	1111101101
42413	=	0000011101
42585	=	1000011101
42758	=	0100011101
42931	=	1100011101
43105	=	0010011101
43280	=	1010011101
43455	=	0110011101
43631	=	1110011101
43808	=	0001011101
43986	=	1001011101
44164	=	0101011101
44343	=	1101011101
44523	=	0011011101
44703	=	1011011101
44884	=	0111011101
45066	=	1111011101
45249	=	0000111101
45432	=	1000111101
45616	=	0100111101
45801	=	1100111101
45987	=	0010111101
46173	=	1010111101
46360	=	0110111101

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
46548	=	1110111101
46737	=	0001111101
46926	=	1001111101
47116	=	0101111101
47307	=	1101111101
47499	=	0011111101
47692	=	1011111101
47885	=	0111111101
48079	=	1111111101
48274	=	0000000011
48470	=	1000000011
48667	=	0100000011
48864	=	1100000011
49062	=	0010000011
49261	=	1010000011
49461	=	0110000011
49662	=	1110000011
49863	=	0001000011
50065	=	1001000011
50268	=	0101000011
50472	=	1101000011
50677	=	0011000011
50883	=	1011000011
51089	=	0111000011
51296	=	1111000011
51504	=	0000100011
51713	=	1000100011
51923	=	0100100011
52134	=	1100100011
52345	=	0010100011
52557	=	1010100011
52770	=	0110100011
52984	=	1110100011
53199	=	0001100011
53415	=	1001100011
53632	=	0101100011
53850	=	1101100011
54068	=	0011100011
54287	=	1011100011
54507	=	0111100011
54728	=	1111100011
54950	=	0000010011
55173	=	1000010011
55397	=	0100010011
55622	=	1100010011
55848	=	0010010011
56075	=	1010010011
56302	=	0110010011
56530	=	1110010011
56759	=	0001010011
56989	=	1001010011

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
57220	=	0101010011
57452	=	1101010011
57685	=	0011010011
57919	=	1011010011
58154	=	0111010011
58390	=	1111010011
58627	=	0000110011
58865	=	1000110011
59104	=	0100110011
59344	=	1100110011
59585	=	0010110011
59827	=	1010110011
60070	=	0110110011
60314	=	1110110011
60559	=	0001110011
60805	=	1001110011
61052	=	0101110011
61300	=	1101110011
61549	=	0011110011
61799	=	1011110011
62050	=	0111110011
62302	=	1111110011
62555	=	0000001011
62809	=	1000001011
63064	=	0100001011
63320	=	1100001011
63577	=	0010001011
63835	=	1010001011
64094	=	0110001011
64354	=	1110001011
64615	=	0001001011
64877	=	1001001011
65140	=	0101001011
65404	=	1101001011
65669	=	0011001011
65935	=	1011001011
66203	=	0111001011
66472	=	1111001011
66742	=	0000101011
67013	=	1000101011
67285	=	0100101011
67558	=	1100101011
67832	=	0010101011
68107	=	1010101011
68383	=	0110101011
68660	=	1110101011
68939	=	0001101011
69219	=	1001101011
69500	=	0101101011
69782	=	1101101011
70065	=	0011101011

• Impulse/ Ein- heitsabstand • pulses/ nit distance		• Schaltereinstel- lungen • switch settings
70349	=	1011101011
70634	=	0111101011
70921	=	1111101011
71209	=	0000011011
71498	=	1000011011
71788	=	0100011011
72079	=	1100011011
72372	=	0010011011
72666	=	1010011011
72961	=	0110011011
73257	=	1110011011
73554	=	0001011011
73853	=	1001011011
74153	=	0101011011
74454	=	1101011011
74756	=	0011011011
75059	=	1011011011
75364	=	0111011011
75670	=	1111011011
75977	=	0000111011
76285	=	1000111011
76595	=	0100111011
76906	=	1100111011
77218	=	0010111011
77531	=	1010111011
77846	=	0110111011
78162	=	1110111011
78479	=	0001111011
78798	=	1001111011
79118	=	0101111011
79439	=	1101111011
79761	=	0011111011
80085	=	1011111011
80410	=	0111111011
80736	=	1111111011
81064	=	0000000111
81393	=	1000000111
81723	=	0100000111
82055	=	1100000111
82388	=	0010000111
82722	=	1010000111
83058	=	0110000111
83395	=	1110000111
83734	=	0001000111
84074	=	1001000111
84415	=	0101000111
84758	=	1101000111
85102	=	0011000111
85447	=	1011000111
85794	=	0111000111
86142	=	1111000111

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
86492	=	0000100111
86843	=	1000100111
87196	=	0100100111
87550	=	1100100111
87905	=	0010100111
88262	=	1010100111
88620	=	0110100111
88980	=	1110100111
89341	=	0001100111
89704	=	1001100111
90068	=	0101100111
90434	=	1101100111
90801	=	0011100111
91170	=	1011100111
91540	=	0111100111
91912	=	1111100111
92285	=	0000010111
92660	=	1000010111
93036	=	0100010111
93414	=	1100010111
93793	=	0010010111
94174	=	1010010111
94556	=	0110010111
94940	=	1110010111
95325	=	0001010111
95712	=	1001010111
96101	=	0101010111
96491	=	1101010111
96883	=	0011010111
97276	=	1011010111
97671	=	0111010111
98068	=	1111010111
98466	=	0000110111
98866	=	1000110111
99267	=	0100110111
99670	=	1100110111
100075	=	0010110111
100481	=	1010110111
100889	=	0110110111
101299	=	1110110111
101710	=	0001110111
102123	=	1001110111
102538	=	0101110111
102954	=	1101110111
103372	=	0011110111
103792	=	1011110111
104213	=	0111110111
104636	=	1111110111
105061	=	0000001111
105488	=	1000001111
105916	=	0100001111

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
106346	=	1100001111
106778	=	0010001111
107212	=	1010001111
107647	=	0110001111
108084	=	1110001111
108523	=	0001001111
108964	=	1001001111
109406	=	0101001111
109850	=	1101001111
110296	=	0011001111
110744	=	1011001111
111194	=	0111001111
111646	=	1111001111
112099	=	0000101111
112554	=	1000101111
113011	=	0100101111
113470	=	1100101111
113931	=	0010101111
114394	=	1010101111
114859	=	0110101111
115325	=	1110101111
115793	=	0001101111
116263	=	1001101111
116735	=	0101101111
117209	=	1101101111
117685	=	0011101111
118163	=	1011101111
118643	=	0111101111
119125	=	1111101111
119609	=	0000011111
120095	=	1000011111
120583	=	0100011111
121073	=	1100011111
121565	=	0010011111
122059	=	1010011111
122555	=	0110011111
123053	=	1110011111
123553	=	0001011111
124055	=	1001011111
124559	=	0101011111
125065	=	1101011111
125573	=	0011011111
126083	=	1011011111
126595	=	0111011111
127109	=	1111011111
127625	=	0000111111
128143	=	1000111111
128663	=	0100111111
129186	=	1100111111
129711	=	0010111111
130238	=	1010111111

• Impulse/ Einheitsabstand • pulses/ nit distance		• Schaltereinstellungen • switch settings
130767	=	0110111111
131298	=	1110111111
131831	=	0001111111
132366	=	1001111111
132904	=	0101111111
133444	=	1101111111
133986	=	0011111111
134530	=	1011111111
135076	=	0111111111
135625	=	1111111111