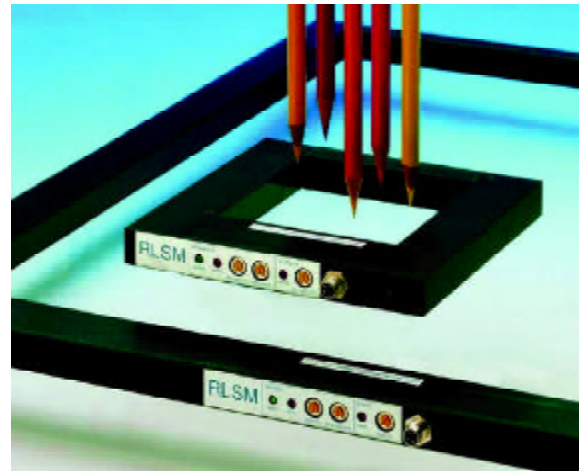




## RLSMxxx-yyy-AP • RLSMxxx-yyy-AN

MODULAR OPTICAL FRAME SENSOR  
- dynamic -

- ◉ dynamic working principle
- ◉ static working alarm output
- ◉ flat housing
- ◉ manual adjustment
- ◉ many different sizes



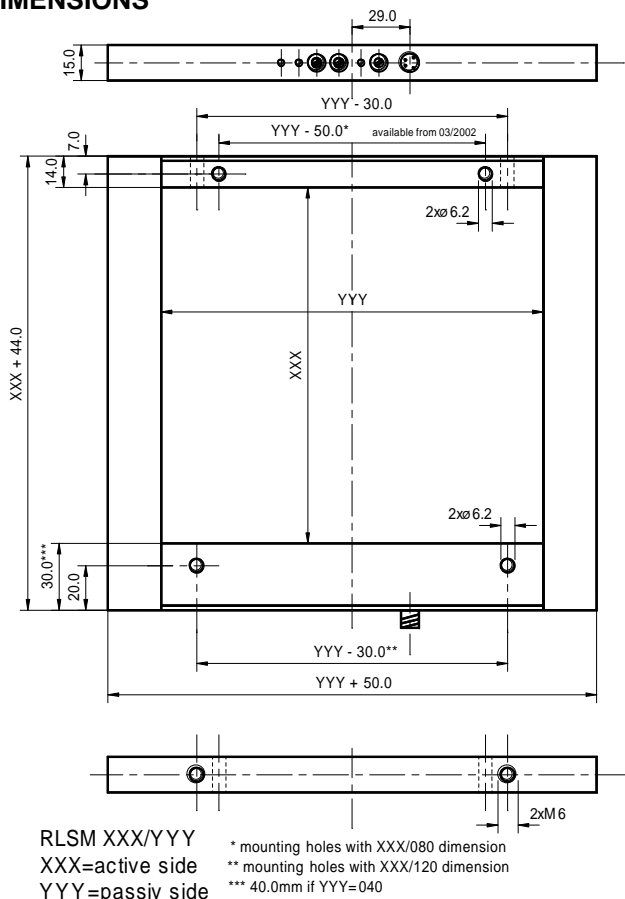
### GENERAL TECHNICAL DATA

<b>operating voltage</b>	16...30 VDC, reversed polarity protection (dependent on size; 24 VDC for all sizes recommended)	
<b>current consumption</b>	depending on the size, max. 750 mA	
<b>output</b>	PNP or NPN, 200 mA, short-circuit proof	
<b>operating principle</b>	dynamic additional static alarm output	
<b>switching function</b>	light-on/dark-on, selectable by reversing the supply voltage	
<b>light type</b>	Infrared	
<b>function indicator</b>	operation	LED green
	output (dynamic)	LED red
	alarm (static)	LED red
<b>switching delay</b>	200µs	
<b>pulse stretching (dyn. operation) only</b>	10 ms to 300 ms (adjustable)	
<b>temperature range</b>	-10°C to +55°C	
<b>protection class</b>	IP65	
<b>active range</b>	min. 40 mm x 40 mm max. 400 mm x 400 mm	
<b>housing</b>	aluminium , black anodized	
<b>counting frequency</b>	dynamic:	function of pulse stretching (max. 150 parts /s)
	static:	1 Hz
<b>connector</b>	M8, locking device, 4 pins, IP65	

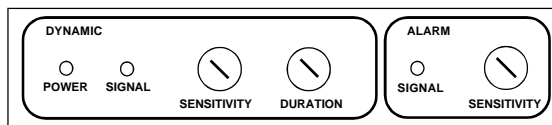
<b>width between emitter and receiver</b>	40	80	120	160	200	240	280	320	360	400
<b>max. dynamic resolution*</b>	2,0	2,0	2,0	2,0	2,0	2,4	2,8	3,2	4,0	5,0
<b>max. static resolution</b>	2,0	3,0	3,5	4,0	4,0	5,0	7,0	10	15	20

\*decreasing object resolution with increasing width between emitter and receiver

### DIMENSIONS

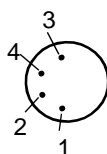


### OPERATING CONTROLS



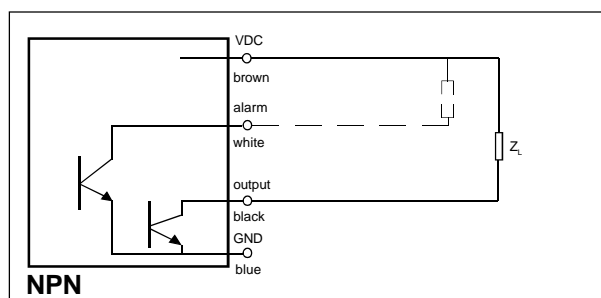
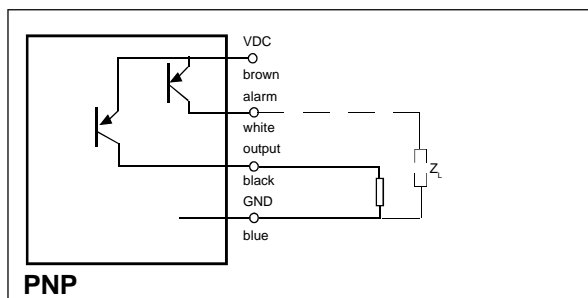
- power supply indicator (Power) LED green
- function indicator dyn. (Signal) LED red
- resolution (Sensitivity),
- pulse stretching (Duration) • 10 - 300 ms
- alarm indicator, stat. (Signal) LED red
- resolution (Sensitivity)

### SUPPLY AND OUTPUT



- 1 (brown) VDC
- 2 (white) alarm, static
- 3 (blue) GND
- 4 (black) signal output, dynamic

### CONNECTION DIAGRAM

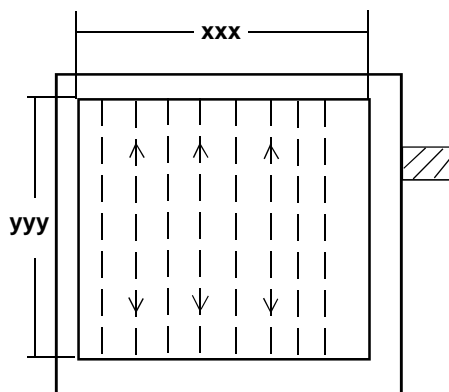


### PART DESIGNATION

**RLSMxxx-yyy-AP:** non-pulsed PNP-output

**RLSMxxx-yyy-AN:** non-pulsed NPN-output

### ORDER EXAMPLE:



**RLSM 160 - 120-AP or AN**

**xxx | yyy**

**xxx** = length of active side  
 (contains emitter and receiver)  
 = multiple of 40 mm,  
 e.g. 4 x 40 mm = **160 mm**

**yyy** = length of the passive side  
 (distance between emitter and receiver)  
 = multiple of 40 mm  
 e.g. 3 x 40 mm = **120 mm**

The following sizes are not offered:

RLSM040-240, RLSM040-280, RLSM040-320, RLSM040-360,  
 RLSM040-400, RLSM080-360, RLSM080-400, RLSM120-400