

- ▶ Ideal for fast counting tasks and ejection control
- ▶ Dynamic functionality
- ▶ Static alarm output
- ▶ Manual adjustment via robust metal potentiometer
- ▶ Modular size system from 40 x 40mm to 400 x 400mm



**DYNAMIC
FRAME SENSOR RLSM**

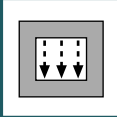
▶ TECHNICAL DATA

MODEL	RLSMxxx-yyy-A	
Operating voltage	16...30 VDC, reverse polarity protection	
Current consumption	depending on the size, max. 750mA	
Output	PNP	NPN
Output current	200mA, short circuit proof	
Functional principle	dynamic, additional static alarm output	
Switching function	light-on/dark-on, selectable by reversing the supply voltage	
Light type	infrared	
Function indicator	operation LED green output (dynamic) LED red alarm (static) LED red	
Response time	200µs	
Pulse stretching (only dyn. function)	10ms to 300ms (adjustable)	
Operating temperature	-10°C.. +55°C	
Protection class	IP65	
Active range	min. 40mm x 40mm max. 400mm x 400mm	
Housing material	aluminium, black anodized	
Counting frequency	dynamic: function of pulse stretching (max. 100 parts /s) static: 1Hz	
Connector	M8 locking device, 4pin	

* supply cable to be ordered separately

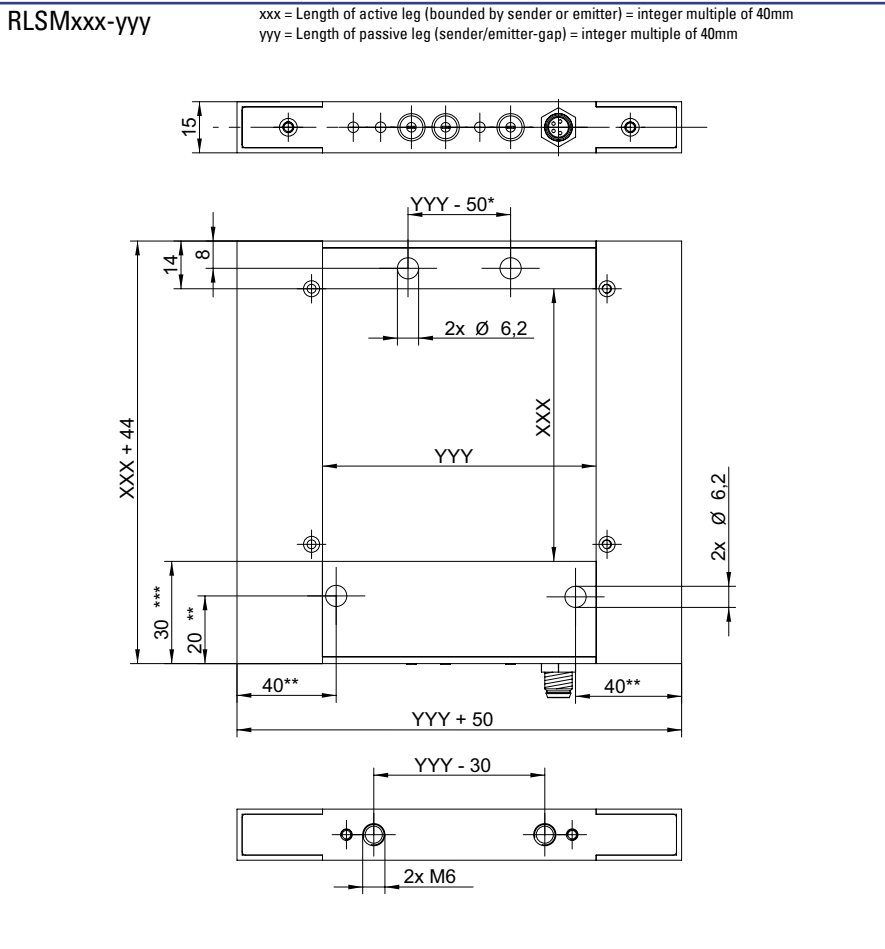
emitter/receiver-width yyy (mm)	40	80	120	160	200	240	280	320	360	400
max. object resolution, dynamic ** (mm)	2,0	2,0	2,0	2,0	2,0	2,4	2,8	3,2	4,0	5,0
max. object resolution, alarm function (mm)	2,0	3,0	3,5	4,0	4,0	5,0	7,0	10	15	20

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



RLSMxxx-yyy-A

► DIMENSIONS Measurements in mm. Subject to technical change.



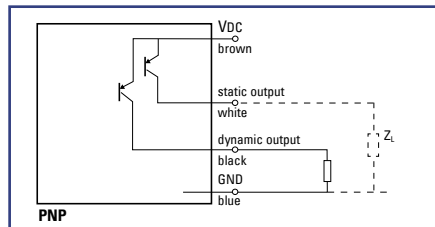
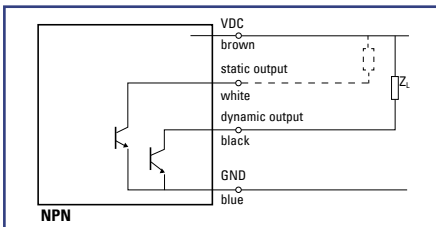
► OPERATING CONTROLS



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

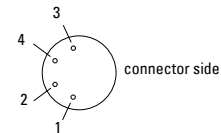
* mounting holes do not exist for YYY < 080
 ** mounting holes do not exist for YYY < 120
 *** 40mm for YYY = 040

► CONNECTION DIAGRAM



► PIN CONNECTION

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



PART DESIGNATION

xxx = length of active sides (contains emitter and receiver) = multiple of 40mm

yyy = length of the passive sides (distance between emitter and receiver) = multiple of 40mm

output
P : PNP
N : NPN

the following sizes are not offered:
 RLSM040-240 RLSM040-280
 RLSM040-320 RLSM040-360
 RLSM040-400 RLSM080-360
 RLSM080-400 RLSM120-400

Model xxx - yyy - A

ORDER EXAMPLE **RLSM080-040-AP** = modular frame sensor 80mm-40mm - dynamic output PNP

Please do not forget to order the appropriate power supply cable (see accessories).