



**Features**

- Robust glass fiber-fiber optic cable within a helical metal spring
- Operating temperature for chrome-plated helical metal spring - 25... + 250 °C  
Operating temperature for helical metal spring with PVC sheath - 10... + 60 °C
- Minimum bend radius 20 mm

**Selection table: sensors, fibre-optic cables, scanning distance/range**

**Fibre-optic cables, proximity systems**

**Scanning distance in mm with photoelectric switches**

Description	Type	Part no.	WLL 12-B 5181			WLL 12-B 5281			WLL 12-B 5381		
			1	2	4	1	2	4	1	2	3
			Red light			Infrared light			Green light		
150 mm	LM 31-150	2 015 225	50	12	280	60	20	280	5	2	60
450 mm	LM 31-450	2 015 223	50	12	280	60	20	280	5	2	60
750 mm	LM 31-750	2 015 224	50	12	280	60	20	280	5	2	60
1500 mm	LM 31-1500	2 017 381	50	12	280	60	20	280	5	2	60
150 mm, with rectangular light outlet	LM 35-150	2 015 226	50	12	280	60	20	280	5	2	60
450 mm, with rectangular light outlet	LM 35-450	2 015 230	50	12	280	60	20	280	5	2	60
750 mm, with rectangular light outlet	LM 35-750	2 015 231	50	12	280	60	20	280	5	2	60
150 mm, with 90° offset head with rectangular light outlet	LM 36-150	2 015 232	50	12	280	60	20	280	5	2	60
450 mm, with 90° offset head with rectangular light outlet	LM 36-450	2 015 233	50	12	280	60	20	280	5	2	60
750 mm, with 90° offset head with rectangular light outlet	LM 36-750	2 015 234	50	12	280	60	20	280	5	2	60
1000 mm, with 90° offset head with rectangular light outlet	LM 36-1000	2 016 772	50	12	280	60	20	280	5	2	60
1250 mm, with 90° offset head with rectangular light outlet	LM 36-1250	2 016 792	50	12	280	60	20	280	5	2	60
150 mm, as LM 36, but with light outlet turned 90°	LM 37-150	2 015 235	50	12	280	60	20	280	5	2	60
450 mm, as LM 36, but with light outlet turned 90°	LM 37-450	2 015 236	50	12	280	60	20	280	5	2	60
750 mm, as LM 36, but with light outlet turned 90°	LM 37-750	2 015 237	50	12	280	60	20	280	5	2	60
450 mm, up to 250 °C	LT 31-450	2 015 227	50	12	280	60	20	280	5	2	60
750 mm, up to 250 °C	LT 31-750	2 015 228	50	12	280	60	20	280	5	2	60
2200 mm, up to 250 °C	LT 31-2200	2 017 871	50	12	280	60	20	280	5	2	60

**Fibre-optic cables, through-beam systems**

**Scanning range in mm with photoelectric switches**

Description	Type	Part no.	WLL 12-B 5181			WLL 12-B 5281			WLL 12-B 5381		
			Red light			Infrared light			Green light		
			450 mm	LM 32-450	2 014 850	200			300		
750 mm	LM 32-750	2 015 038	200			300			20		
150 mm, with 90° offset head	LM 38-150	2 016 788	200			300			20		
450 mm, with 90° offset head	LM 38-450	2 015 049	200			300			20		
750 mm, with 90° offset head	LM 38-750	2 015 050	200			300			20		
750 mm, with 90° offset head and front lens	LM 38-751	2 015 970	330			550			32		
450 mm, as LM 38, but with light outlet turned 90°	LM 39-450	2 015 047	200			300			20		
750 mm, as LM 38, but with light outlet turned 90°	LM 39-750	2 015 048	200			300			20		
450 mm, up to 250 °C	LT 32-450	2 015 072	200			300			20		
750 mm, up to 250 °C	LT 32-750	2 015 073	200			300			20		

- 1 With reference to standard white, 90 % remission
- 2 With reference to standard grey, 18 % remission
- 3 With reference to standard black, 6 % remission
- 4 On "diamond grade" reflective tape